

# Service Manual

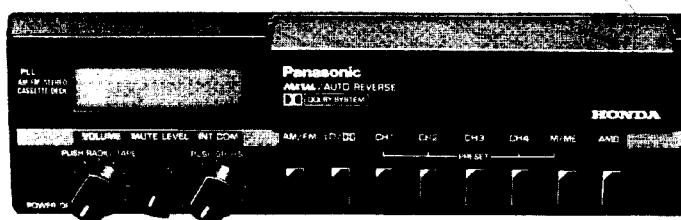
Car Audio

**FM-AM-FM STEREO  
CASSETTE DECK/TUNER/AMPLIFIER**

**CUSTOM-MADE FOR HONDA**



**RM-1300A  
RM-1400A**  
(Black)



This is the Service Manual  
for the following area.

**M** ...For U.S.A.

Spare parts for this model have already been unable to supply.  
However, we un-officially may supply a few items.  
Please contact us regarding this matter.

## ■ SPECIFICATIONS

### General

Power Source:	DC 12V (Negative ground only)
Test Voltage:	DC 14V
Power Consumption:	0.8A at maximum power output (Memory backup 0.5mA)
Dimensions:	208mm(W)×64mm(H)×144mm(D) (8 <sup>3</sup> / <sub>16</sub> ×2 <sup>9</sup> / <sub>16</sub> ×5 <sup>11</sup> / <sub>16</sub> ) without bracket
Weight:	1.7kg (3 lb 3/4 oz) without bracket

### FM Tuner Section

Frequency Range:	87.5~107.9MHz
Usable Sensitivity:	8dB (S/N 30dB)
Signal to Noise Ratio:	55dB
Stereo Separation:	35dB at 1kHz
THD:	0.5%
IF Frequency:	10.7MHz

### AM Tuner Section

Frequency Range:	530~1620kHz
Usable Sensitivity:	34dB (S/N 20dB)
Selectivity:	50dB ( $\pm 10$ kHz)
IF Frequency:	450kHz

### Cassette Deck Section

Tape System:	Auto-reverse
Wow & Flutter:	0.15% (WRMS)
Stereo Separation:	35dB at 1kHz

### Intercom Section

Mike Input Impedance:	600Ω
Headphone Output:	0.5W (16Ω/CH)

\* "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.  
Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.  
Weights and dimensions shown are approximate.  
Design and specifications are subject to change without notice.

# Panasonic

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## **LOCATION OF CONTROLS AND COMPONENTS**

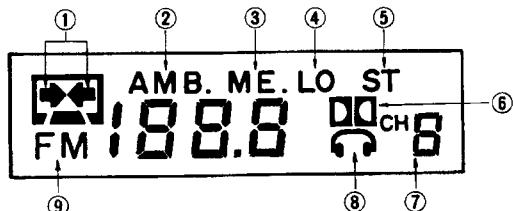


Fig. 1

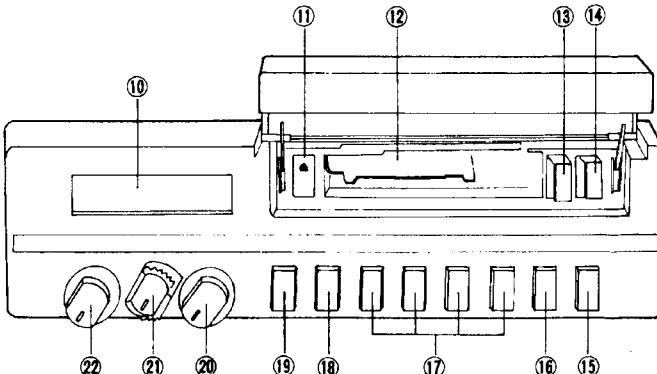


Fig. 2

<p>① Direction Indicators          ② Ambience Indicator          ③ Metal/Memory Indicator          ④ Local/DX Indicator          ⑤ FM Stereo Indicator          ⑥ Dolby Indicator          ⑦ Preset CH Indicator          ⑧ Headset Indicator          ⑨ AM/FM Indicator          ⑩ LCD Display          ⑪ Eject Button          ⑫ Tape Slot          ⑬ Rewind Button</p>	<p>⑭ Fast Forward Button          ⑮ Ambience Switch (ON/OFF)          ⑯ Metal/Memory Switch (M/ME)          ⑰ Preset Switches (CH1/PRO., CH2, CH3, CH4)          ⑱ Sensitivity Switch, Dolby Switch (DX/LOCAL, DOLBY ON/OFF)          ⑲ Band Switch (AM, FM)          ⑳ Speaker/Headset Switch, Intercom Switch/Control Volume (PUSH SP/H/S)          ㉑ Mute Level Control (MUTE LEVEL)          ㉒ Radio/Tape Switch, Power Switch, Volume Control (PUSH RADIO/TAPE, POWER OFF)</p>
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# DISASSEMBLY INSTRUCTIONS

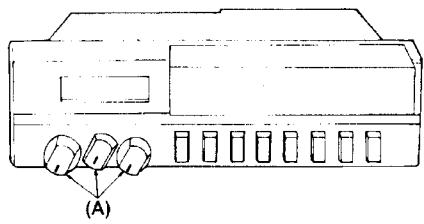


Fig. 1

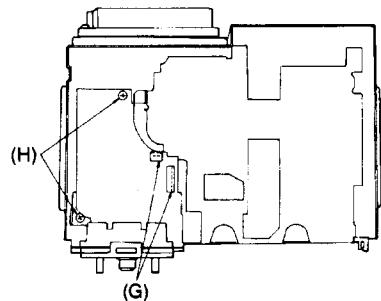


Fig. 6

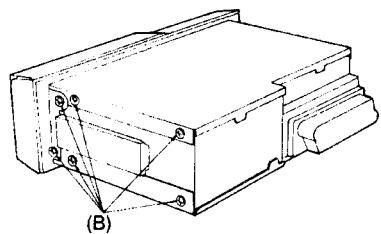


Fig. 2

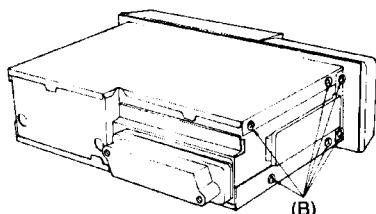


Fig. 3

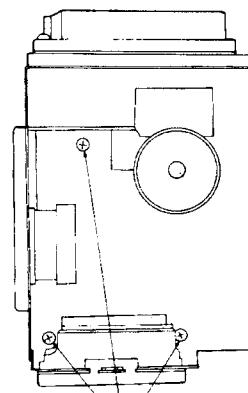


Fig. 7

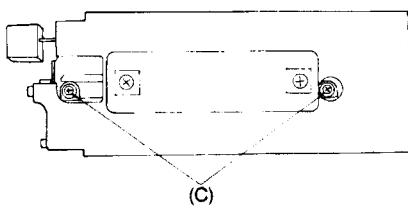


Fig. 4

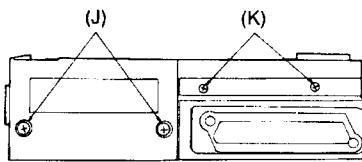


Fig. 8

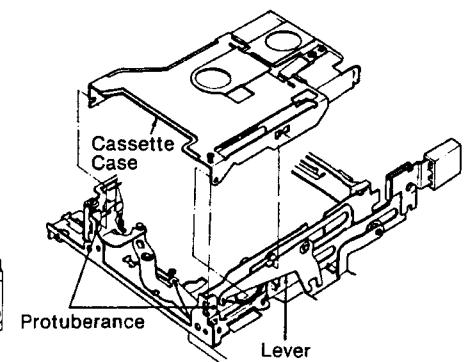


Fig. 13

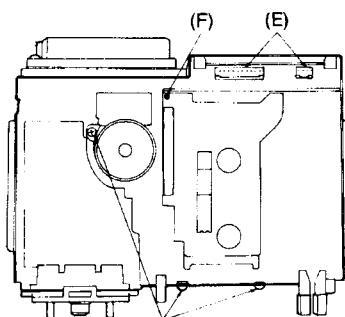


Fig. 5

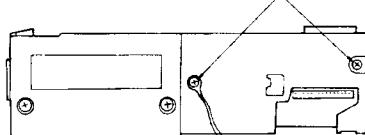


Fig. 9

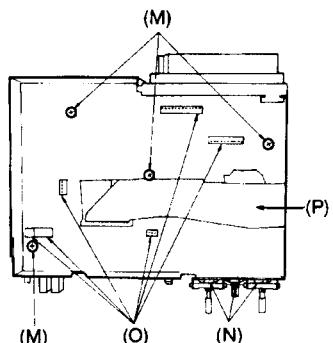


Fig. 10

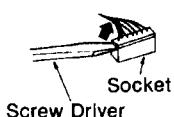


Fig. 11

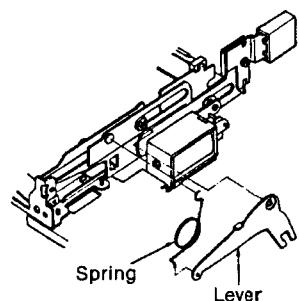


Fig. 12

Ref. No.	Procedure	Shown in Fig. —.	To remove —.	Remove —.
1	1, 2	1	Front Panel, Covers	Knob .....(A)×3
2		2, 3		Screw (3×6)mm .....(B)×12
3	1~5	4	Mechanism	Screw (2.6×5)mm .....(C)×2
4		5		Screw (2.6×5)mm .....(D)×3
5				Socket * 1 .....(E)×2
6	1~6	5	Cassette Case * 2	Loosen screw .....(F)×1
7	1~8	6	AM Circuit Board	Socket * 1 .....(G)×2
8				Screw (3×6)mm .....(H)×2
9	1~9	7	LCD Circuit Board	Screw (3×6)mm .....(I)×3
10	1~5, 10	8	Deck EQ & Ambience Circuit Board	Screw (3×6)mm .....(J)×2
11	1, 2, 11, 12	8	Power Source Circuit Board	Screw (3×4)mm .....(K)×2
12		9		Screw (3×4)mm .....(L)×2
13	1, 2, 13~16	10	Main Circuit Board	Screw (3×6)mm .....(M)×4
14				Nut (7 $\frac{1}{2}$ ) .....(N)×3
15				Socket * 1 .....(O)×7
16				Jumper (FPC) .....(P)×1

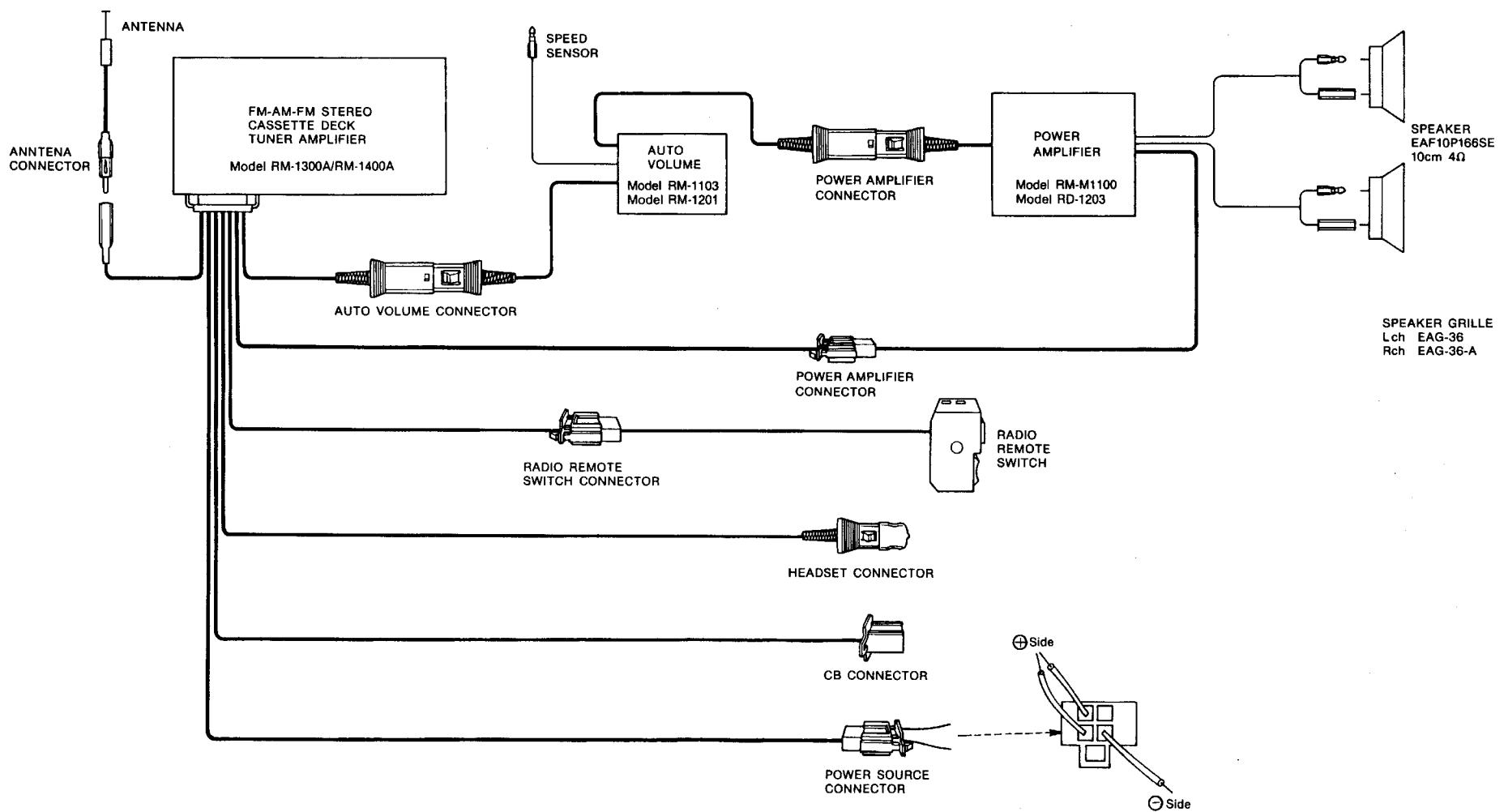
\* 1. Remove socket in the direction of arrow as shown in fig. 11.

\* 2. To reassemble, note the following.

(1) Insert the lever and spring in mechanism, as shown in fig. 12.

(2) Insert the cassette case as shown in fig. 13.

## AUDIO SYSTEM CONNECTION



## HARNESS CONNECTION

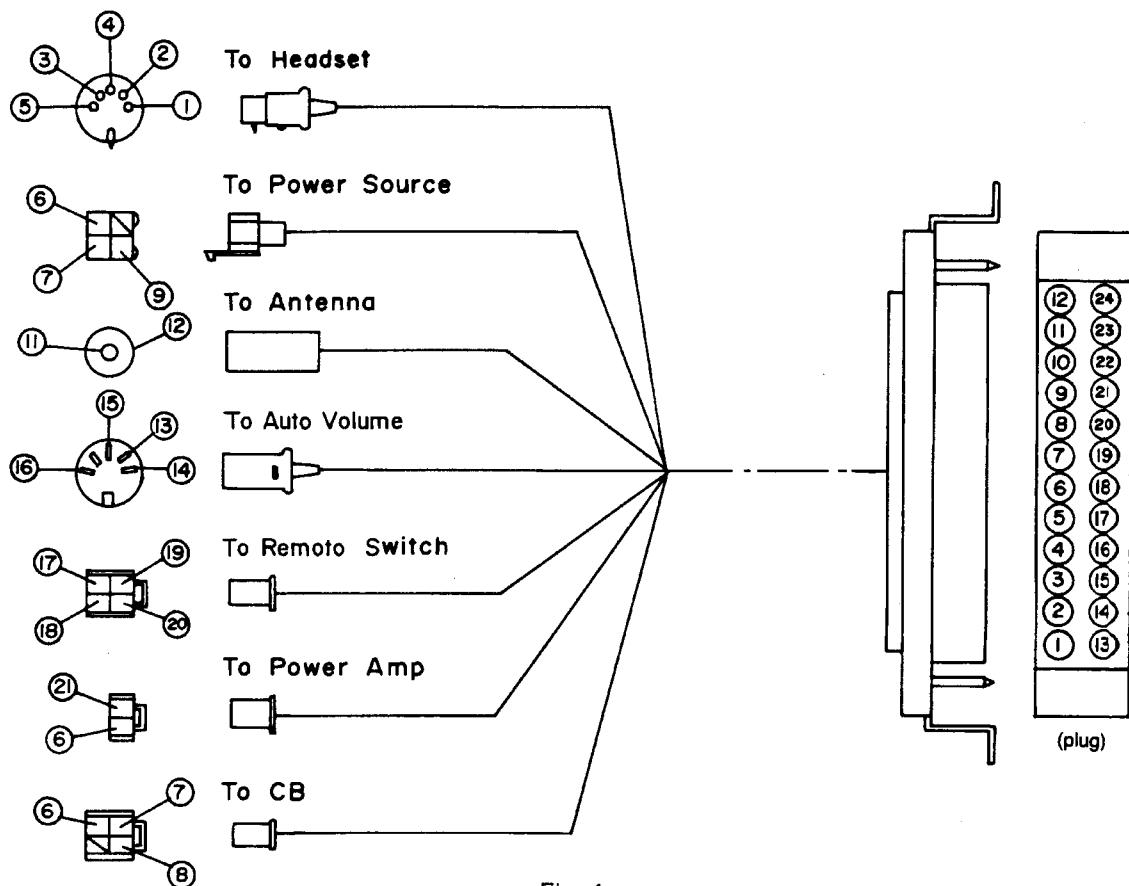
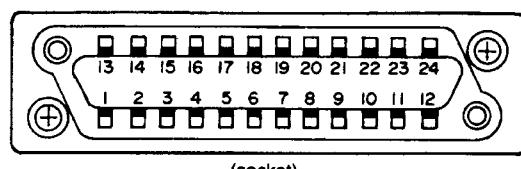


Fig. 1



① Microphone	⑬ Rch
② Earth	⑭ Lch
③ Rch	⑮ Earth
④ Earth	⑯ +B Out
⑤ Lch	⑰ Mute
⑥ Acc	⑱ Up
⑦ CB	⑲ Down
⑧ Earth	⑳ Earth
⑨ Earth	㉑ Earth
⑩ Earth	㉒ Earth
㉓ Antenna	㉔ Earth
㉔ Earth	

Fig. 2

# MEASUREMENTS AND ADJUSTMENTS

1. Set power switch to ON. 2. Mute switch on Remote switch to OFF. 3. SP/HS switch to HS.	 SG Q303
4. Set volume control to maximum. 5. Set band switch to AM, FM. 6. Set SENS switch to DX.	

## ■ AM IF ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		FREQUENCY DISPLAY SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
<b>AM-IF ALIGNMENT</b>						
(1) AM	 Earth.....(+)  SG Q303	450 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	 B...(+) E...(-)	T302(AM 1st IFT) T303(AM 2nd IFT)	Adjust for maximum output.

## ■ AM RF ALIGNMENT

BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	DC VOLT METER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(1)	Disconnect	No signal applied	530kHz	 B...(+) E...(-)	L303 (AM OSC Coil)	Adjust for $1.2 \pm 0.05$ V reading on DC voltmeter
	Disconnect	No signal applied	1620kHz	 B...(+) E...(-)	CT302 (AM OSC Trimmer)	Adjust for $7.8 \pm 0.1$ V reading on DC voltmeter
Repeat steps (1) and (2).						
BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	AC VOLT METER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(4)	Connect to antenna socket through AM RF dummy antenna. (Refer to Fig. 6)	600kHz	600kHz	 B...(+) E...(-)	L301 (AM ANT Coil) L304 (AM ANT Coil)	Adjust for maximum reading on AC voltmeter
	"	1400kHz	1400kHz	 B...(+) E...(-)	CT301 (AM ANT Trimmer) CT303 (AM ANT Trimmer)	"
Repeat steps (4) and (5).						

## ■ AM NB ALIGNMENT

BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	OSCILLOSCOPE	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM	Connect to antenna socket through AM RF dummy antenna. (Refer to Fig. 6)	600 kHz (400 Hz, 0% Mod. 74 dB)	600 kHz	 B...(+) E...(-)	T301 (AM NB)	Adjust for maximum wave from on oscilloscope.

## ■ FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		FREQUENCY DISPLAY SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
<b>FM-IF ALIGNMENT</b>						
(1) FM	High side thru. 0.001μF to test point  B, Negative side to test point  E.	10.7 MHz SWP.	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point  B. Negative side to test point  E.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to Fig. 3)
(2) FM	"	"	"	"	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to Fig. 4)

**■ FM RF ALIGNMENT**

BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	DC VOLTMETER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(1)	Disconnect	No signal applied	87.5 MHz	▼...(+) E...(-)	L5 (FM OSC Coil)	Adjust for $1.2 \pm 0.05$ V reading on DC voltmeter.
	FM	Disconnect	107.9 MHz	▼...(+) E...(-)	CT3 (FM OSC Trimmer)	Adjust for $8 \pm 0.1$ V reading on DC voltmeter.
(3) Repeat steps (1) and (2).						
BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	AC VOLTMETER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(4)	Antenna socket (FM RF Dummy Fig. 7)	90.1 MHz (400 Hz 30%)	90.1 MHz	▼...(+) E...(-)	L1 (FM ANT Coil) L4 (FM ANT Coil)	Adjust for maximum reading on AC voltmeter
	FM	"	106.1 MHz (400 Hz 30%)	▼...(+) E...(-)	CT1 (FM ANT Trimmer) CT2 (FM ANT Trimmer)	"
(6) Repeat steps 4 and 5.						

**■ DC BALANCE NB ALIGNMENT**

BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	DC VOLTMETER (center "0")	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
FM	Antenna socket	90.1 MHz (400 Hz, 30% Mod, 60 dB)	90.1 MHz	▼....(+) ▼....(-)	T3 (FM 2nd IFT)	Adjust T3 for $-0.05 \sim 0.05$ V reading on DC voltmeter.

**■ FM STEREO ALIGNMENT**

<p>Notes: 1. Stereo modulator ..... • Connect stereo modulator output to EXT MOD terminal of signal generator.  • Pilot signal modulation to "10%".</p> <p>2. FM signal generator ..... • Frequency approximately 100 MHz/Output level to "60~70 dB", 1~3 mV.  • Modulation mode to "FM".</p>					
CIRCUIT	SIGNAL GENERATOR	FREQUENCY COUNTER	AC VOLTMETER	ADJUSTMENT	REMARKS
PILOT	90.1 MHz (0% Mod, 80 dB)	High side thru, 100 kΩ to test point ▲, Negative side to ▼.	—	VR2 (Pilot)	Adjust for $76.00 \text{ kHz} \pm 50 \text{ Hz}$ reading on frequency counter.
SEPARATION	90.1 MHz (400 Hz, 30% Mod, 80 dB)	—	▼...Lch (+) ▼...Rch (+) E...(-)	VR1 (Separation)	Make adjustment so that when the antenna input is subjected to L modulation (or R modulation.) R channel output (or L channel output) becomes minimum.

**■ AZIMUTH ALIGNMENT**

TAPE	AC VOLTMETER①	AC VOLTMETER②	ADJUSTMENT	REMARKS
Playback the azimuth tape. QZZCAC (10 kHz~20 dB)	▼...(+) ▼...(-)	Across headset ▼...(+) ▼...(-)	Azimuth Screw (Refer to Fig. 5)	Adjust for same reading on AC voltmeter① and ②.

**■ DOLBY LEVEL ALIGNMENT**

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Dolby Level	Tape QZZCFM (315 Hz 0 dB)	▼...R ▼...L E...(-)	420 mV $\pm 1$ dB	VR501 (R) VR502 (L)	Dolby switch ... OFF

### ■ ALIGNMENT POINT

\* See the schematic diagram and the circuit board and wiring connection diagram for the location of the test points.

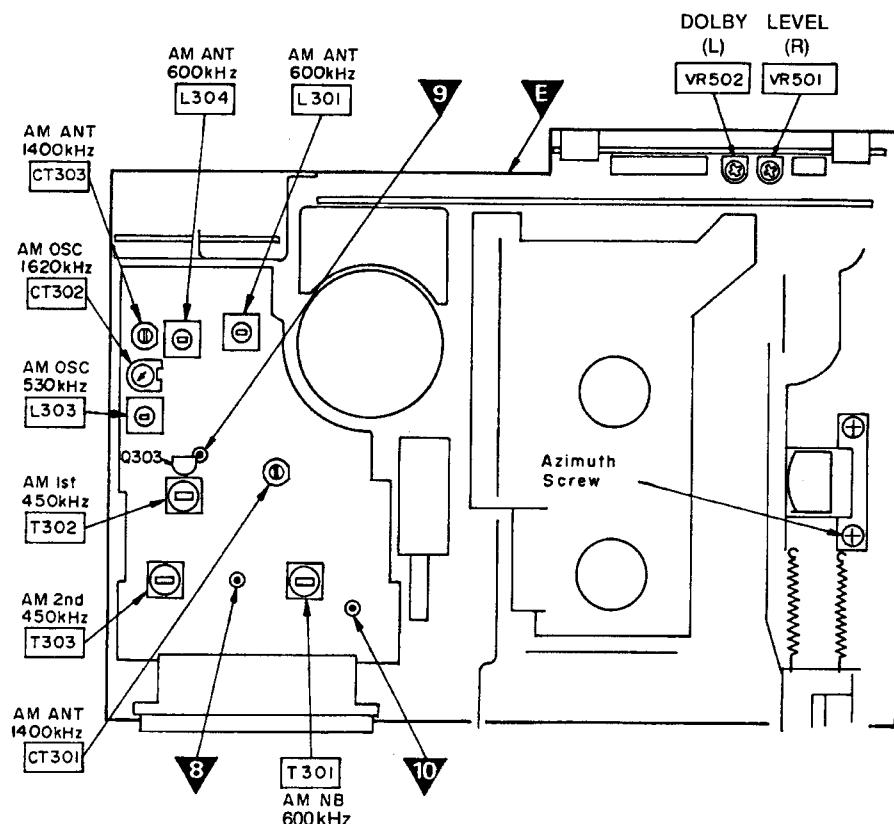


Fig. 1

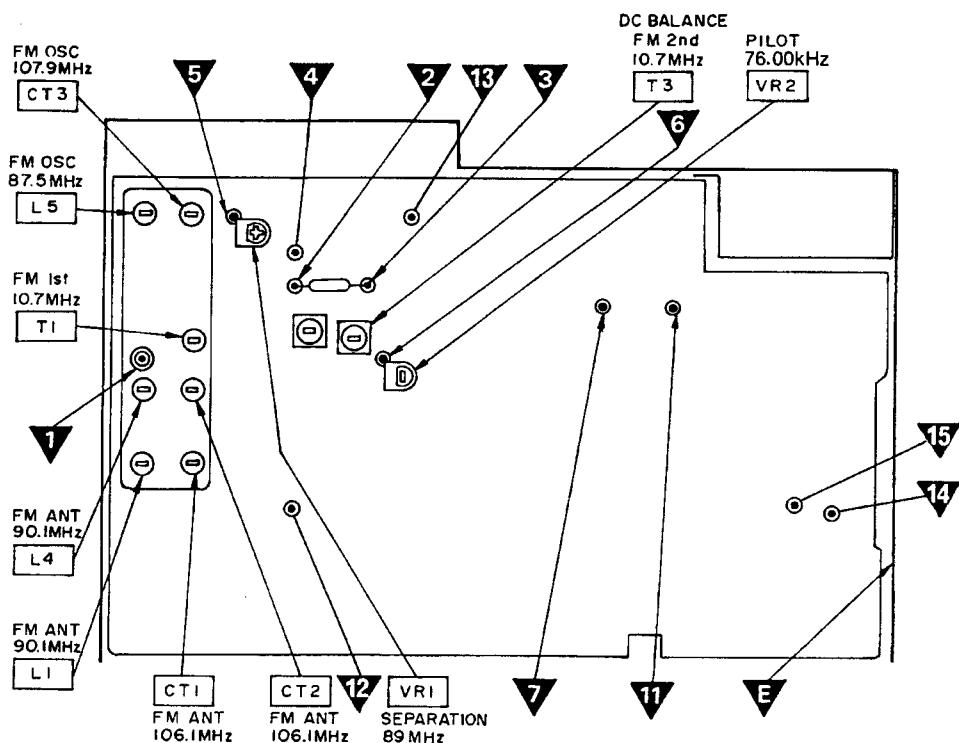


Fig. 2

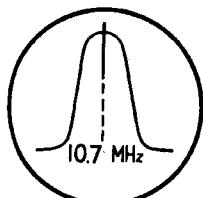
**■ WAVE FORM**

Fig. 3

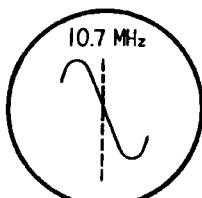
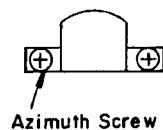


Fig. 4



Azimuth Screw

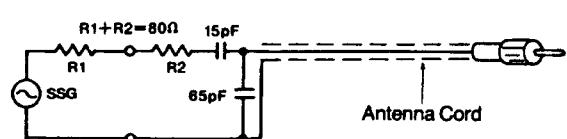
**■ AM RF DUMMY ANTENNA**

Fig. 6

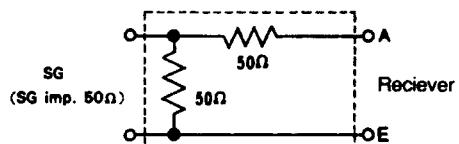
**■ FM RF DUMMY ANTENNA**

Fig. 7

**LIQUID CRYSTAL DISPLAY (LCD)**

- 1) The common and segment terminals of the LCD are connected in the following way:

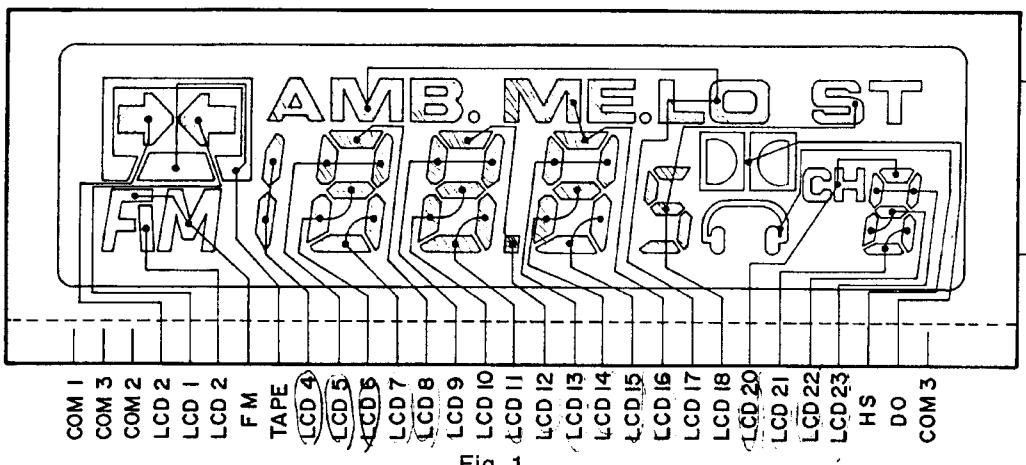


Fig. 1

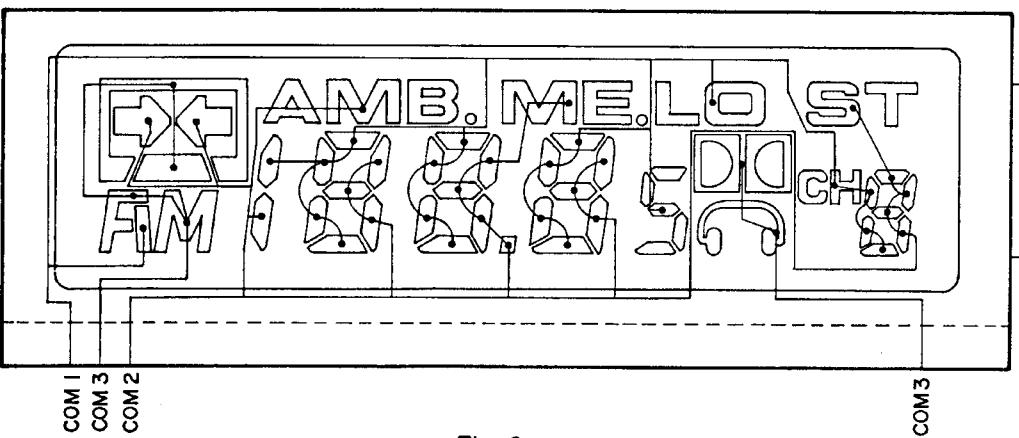


Fig. 2

## 2) Output signal waveforms of LCD segment

The illumination or nonillumination of segments (LCD1~23) on the LCD is determined by the combination of the segment drive signal and the common drive signals (COM1 and 2) from IC401. (See Fig. 3.)

The illumination or nonillumination of segments other than LCD1~23 (FM, Tape, HS, DO) is determined by the combination of the 80Hz signal made by the oscillation circuits in Q403 and Q404 and the segment drive signal made in IC402.

ex. Example display ("3")

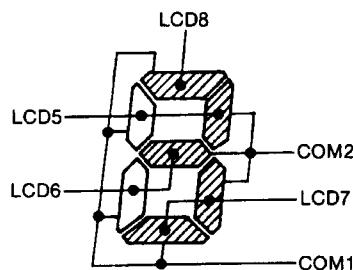


Fig. 3

## UPD1708G555 (IC401): EACH TERMINAL FUNCTION & WAVEFORM

### 1) Terminal View

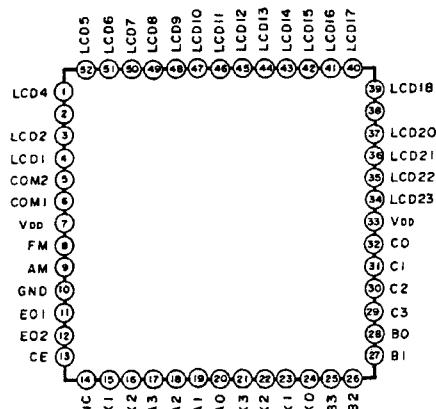


Fig. 1

### 2) Block Diagram

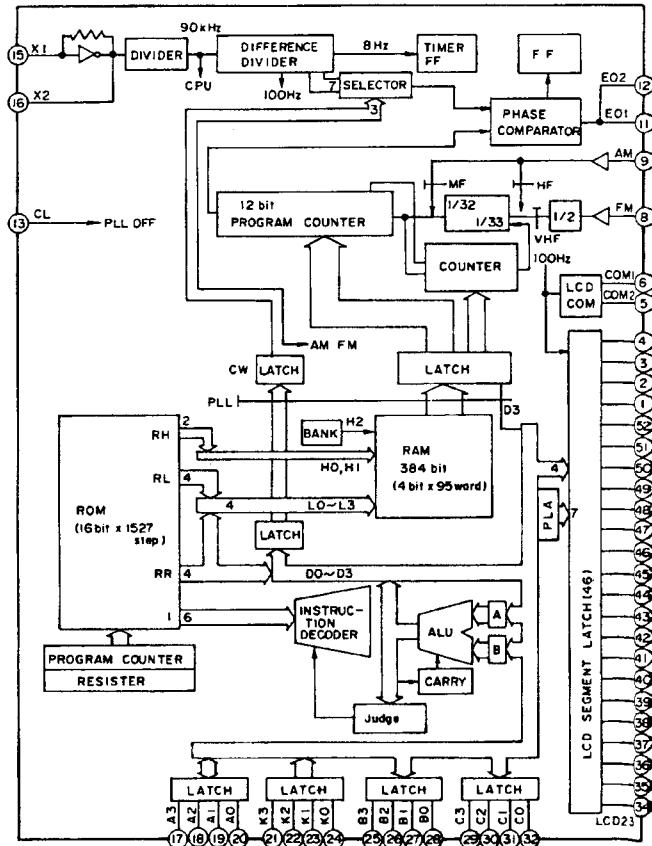


Fig. 2

### 3) Function of terminal (PLL controller IC401)

Pin No.	Mark	Description of terminal
1 4 34 52	LCD4 LCD1 LCD23 LCD5	Segment signal output terminal for display. (Refer to Fig. 1.)
5	COM2	Common signal output terminal connected to LCD. Output is delivered in 3 values of ground, 1/2V <sub>DD</sub> and V <sub>DD</sub> (at 5ms intervals) in a period of 50Hz. The segment turns ON when the difference in voltage is $\pm$ V <sub>DD</sub> between these terminals and LCD1~LCD23.
6	COM1	
7	V <sub>DD</sub>	Power supply terminal of device. Voltage of 5V $\pm$ 10% is supplied during operation of device. To hold the internal data memory (RAM), the voltage can be decreased to 2.5V.
33	V <sub>DD</sub>	<b>Note:</b> Pins 7 and 33 are connected inside the chip. It is unnecessary to supply voltage to the pins.
8	FM	Input is local oscillator output (VCO) in a range of 10~130MHz (0.3Vp-p, min.). There are 1/2 fixed frequency division prescaler and 2-step (1/32, 1/33) prescaler internally. Therefore, when deciding the frequency dividing value of programmable divider, it must be decided from the frequency obtained by halving the local oscillator output (VCO).
9	AM	Input is local oscillator output (VCO) in a range of 0.5~20MHz (0.1Vp-p, min.). When the mode is shifted to FM, the AM terminal voltage automatically becomes the supply voltage of device.
10	GND	Ground terminal.
11	E01	When the divided oscillator frequency is higher than the standard frequency, H-level output is delivered from these terminals.
12	E02	When it is lower, L-level (0V) output is delivered. When they coincide, it results in floating.
13	CE	Device selection signal input terminal. The signal level should be high when the device is operated, and low when not operated. With this terminal shifted to low level, LCD (liquid crystal display) turns off and the memory is held.
14	NC	Not used in this unit.
15	X1	Connecting terminal for crystal oscillator. The crystal connected is 4.5MHz.
16	X2	
17	A3 (SD)	Inputs high signal when broadcast is received during auto tuning in the radio mode and low signal at all other times.
18	A2	Outputs high signal when ambience switch is pressed and turns on Q18.

Pin No.	Mark	Description of terminal
19	A1	—
20	A0	—
21 24	K3 K0	Input terminal for key return signal from switch matrix.
25 28	B3 B0	Output terminal for key scan signal to switch matrix.
29	C3	Output METAL-Dx/Lo
30	C2	Outputs switching signal for FM/AM bands. When high signal is output, FM demodulation circuit operates and FM mode is set.
31	C1	Outputs muting signal. Normally high; low during muting.
32	CO	Not used in this unit.
33	Vcc	+5V terminal.

## ELECTRICAL PARTS LIST

### Numbering System of Resistor

Example	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω) 2R2
ERX	2	AN	J	
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Resistor Type	Wattage	Tolerance
ERD: Carbon	10 : 1/8 W	J : ±5%
ERG: Metal Film	12 : 1/8 W	
ERX: Metal Film	25 : 1/4 W	
ERQ: Fuse Type Metal	1 : 1 W	
RRD: Carbon (Chip Type)	18 : 1/8 W	

### Numbering System of Capacitor

Example	ECKD	1H	102	Z	F
Type	Type	Voltage	Value (1000 pF) M	Tolerance	Peculiarity
ECEA	50			R47	

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
ECEA: Electrolytic	0J : 6.3 V	2H : 500 V DC	C : ±0.25 pF
ECCD: Ceramic	1A : 10 V	1 : 100 V	J : ±5%
ECKD: Ceramic	1C : 16 V	DKC : 400 V AC	K : ±10%
ECQM: Polyester	1E : 25 V		Z : +80%, -20%
ECQP: Propylene	1H : 50 V		P : +100%, -0%
ECET: Electrolytic	1V : 35 V		
ECEA□□□: Non Polar	50 : 50 V		
Electrolytic			
QCU□: Ceramic (Chip Type)	25 : 25 V		
ECUX: Ceramic (Chip Type)	16 : 16 V		

Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.
	<b>CAPACITORS</b>						
C 1, 2, 4, 8, 9, 10, 15	RCUX1H102MD RCUX1H270KC	C 31, 76, 85, 86, 138, 139	ECEA1HK4R7 ECEA1HKR33	C 151, 155	ECSF1VE104	C 401	RCUX1H102MD ECOV1H474JZ
C 3		C 32, 128, 129	ECEA1HKR33	C 161	ECEA0JK470	C 402	
C 5, 11, 81, 83, 89, 107, 109, 119, 121, 124, 125, 134, 135	ECEA1CK100	C 33, 42, 80	ECEA1CK470	C 301, 303, 305, 310, 311, 320, 324, 325, 336,	RUCU1H101K	C 403, 404, 405, 413, 420	RCUX1H103ZF ECEA1HK0R1
C 6, 16	RCUX1H150KC	C 36, 39, 142, 160	RCUX1E223ZF	511, 512, 514	RUCU1E223ZF	C 406	RUCUX1H220KC
C 12, 13, 20, 25, 40, 68, 69, 88, 103, 105, 110, 115, 116, 164	RCUX1H103ZF	C 41, 102, 149	ECEA1AK220	C 302	RUCU1H471KB	C 407, 408	ECEA1CK100
C 14, 19	RCUX1H271K	C 45	ECEA1CN100S	C 304	RUCU1H101K	C 409	ECEA1CK100
C 17	RCUX1H390KC	C 47	RUCU1H332MD	C 306, 322, 504, 508, 515	ECEA1CK100	C 410, 411, 412	RCUX1H221K
C 18	RCUX1H180KC	C 48, 141, 146, 154	ECUX1E104MD	C 307, 317, 334	ECUX1H153MD	C 414	ECKD1H103ZF
C 22, 46, 108, 114, 120, 130, 131	ECUX1E473MD	C 49, 140	ECEA1CU221	C 308, 327, 505	ECEA1CK470	C 421	ECEA0JK221
C 23	ECUX1H101JR	C 51	ECQP2A102JZ	C 309, 323, 338, 340, 350	RUCU1E103MD	C 422	ECEA0JU102
C 24	ECEA1AK470	C 53, 106, 147, 150	ECEA1HK2R2	C 312, 326, 519,	ECEA1CK100	C 423	ECEA1HK100
C 26, 52	RCUX1E333ZF	C 54, 65, 66, 71, 72, 73, 74	ECEA1HK3R3	C 520	ECEA1KE4R7	C 424	ECUX1E473MD
C 27, 37, 38, 43, 59, 60, 61, 62, 63, 64, 75, 78, 79, 87, 143, 156	ECEA1HK010	C 56, 58	ECFS1CE105	C 313	ECKD1H103ZF	C 425	ECUD1H820K
C 29, 30, 35, 50, 55, 57, 82	RCUX1H470KC	C 67	ECEA0JK101	C 314	RCUX1H102MD	C 426	ECCD1H820K
C 28	RCUX1H223MD	C 77, 117	ECEA1CU101	C 315	RCUX1H103ZF	C 501, 509	ECFSF1CD224
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD	C 84	ECEA1AK330	C 316	RUCU1H220KC	C 502, 506	ECEA0JK330
C 27, 37, 38, 43, 59, 60, 61, 62, 63, 64, 75, 78, 79, 87, 143, 156	ECEA1HK010	C 98, 99, 111, 126, 127	ECEA1HK0R1	C 318	ECOP2A471JZ	C 510, 521	RCUX1H152MD
C 28	RCUX1H470KC	C 104	ECEA1AU101	C 319	ECEA1HKR47	C 601, 604, 605, 606, 608, 609,	ECEA1AU221
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD	C 112	RUCU1H181K	C 321, 518	ECEA1AK220	610, 611, 612,	
C 28	RCUX1H470KC	C 113	ECEA1HKR22	C 328	RUCU1E333ZF	613, 614	ECUXAH102ZF
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD	C 118	RUCU1H560KC	C 329, 516, 517	ECEA1HK010	C 602, 603	ECUX1E104MD
C 28	RCUX1H470KC	C 122, 145, 153	ECEA1AU221	C 330	RCUX1H472MD	C 607, 615	ECEA1CU471
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD	C 123	ECEA1AU471	C 332, 503, 507	RCUX1H682MD	C 701	ECEA1HU010
C 28	RCUX1H470KC	C 136, 137	ECUX1E333MD	C 342	RCUX1H332MD	C 702	ECEA1AU470
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD	C 144	ECEA1CU471	C 344	ECUX1H223MD	C 703	ECOV1H334JZ
C 28	RCUX1H470KC	C 148, 152	RCUX1H472MD	C 346	ECUX1E473MD	C 706, 707	ECUX1E473MD
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD			C 348	ECEA1HK0R1	C 708	ECUX1E104MD
C 28	RCUX1H470KC					C 709	RCUX1H682MD
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD					C 710, 711	ECEA1CU330

# RM-1300A/RM-1400A

Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.
<b>RESISTORS</b>							
R 1, 2	ERJ6GCJ681	R 30, 59, 60, 154, 164, 165, 174, 175, 181, 202	ERJ6GCJ332	R 304	ERJ6GCJ105	R 514, 515, 521	ERJ6GCJ272
R 3, 14, 16, 51, 52, 82, 83, 91, 93, 97, 98, 121, 122, 127, 128, 129, 132, 134, 135, 137, 138, 139, 140, 141, 188	ERJ6GCJ104	R 31	ERD25FJ103	R 305	ERJ6GCJ270	R 523	ERJ6GCJ333
R 4, 104, 120, 200	ERJ6GCJ224	R 33, 75	ERJ6GCJ821	R 306	ERJ6GCJ182	R 524	ERJ6GCJ331
R 5, 172, 173	ERJ6GCJ274	R 34, 44	ERJ6GCJ123	R 308	ERJ6GCJ330	R 525	ERJ6GCJ681
R 6, 15, 27, 35, 86, 87, 88, 89, 102, 103, 118, 124, 133, 153, 176, 177, 184	ERJ6GCJ473	R 36, 39, 47, 48, 56, 67, 68, 73, 74, 80, 81, 84, 85, 92, 95, 106, 136	ERJ6GCJ223	R 310, 330, 333 R 311, 312, 314, 522	ERJ6GCJ470	R 530	ERJ6GCJ561
R 7, 156	ERJ6GCJ334	R 37, 159, 189, 196	ERJ6GCJ222	R 313, 317, 319	ERJ6GCJ104	R 702, 712, 714	ERJ6GCJ224
R 8	ERJ6GCJ181	R 38, 71, 72, 183	ERJ6GCJ333	R 316, 527, 528	ERJ6GCJ103	R 703, 720, 722	ERJ6GCJ222
R 9, 10	ERJ6GCJ470	R 42, 96, 152	ERJ6GCJ153	R 318	ERJ6GCJ152	R 704	ERJ6GCJ333
R 11, 18, 21, 32, 40, 99, 105	ERJ6GCJ101	R 45, 46, 53, 54, 151	ERJ6GCJ392	R 322, 324, 326, 526, 529	ERJ6GCJ222	R 705, 713	ERJ6GCJ104
R 12, 22, 26, 61, 62, 65, 66, 100, 101, 119, 157, 158, 187	ERJ6GCJ102	R 49, 50, 94	ERJ6GCJ563	R 323, 328	ERJ6GCJ153	R 706	ERJ6GCJ471
R 13	ERJ6GCJ103	R 57, 58, 144, 203	ERJ6GCJ105	R 332	ERJ6GCJ151	R 707, 710	ERJ6GCJ472
R 14	ERJ6GCJ104	R 63, 64	ERJ6GCJ154	R 334	ERJ6GCJ183	R 708, 709	ERJ6GCJ473
R 15	ERJ6GCJ105	R 78, 79, 186	ERJ6GCJ273	R 401	ERJ6GCJ682	R 711	ERJ6GCJ223
R 16	ERJ6GCJ106	R 147	ERJ6GCJ151	R 402	ERJ6GCJ222	R 715	ERJ6GCJ122
R 17	ERJ6GCJ107	R 148	ERJ6GCJ271	R 403	ERJ6GCJ472	<b>CHIP JUMPER</b>	
R 18	ERJ6GCJ108	R 149, 150	ERJ6GCJ294	R 404, 414	ERJ6GCJ473	RJ 1, 2, 3, 4, 5	RRD18XK000
R 19	ERJ6GCJ109	R 155, 190	ERJ6GCJ561	R 405, 406, 407, 408, 409, 410,	ERJ6GCJ104	RJ 6, 7, 8, 9, 10, 11, 12, 13,	RRD18XJ103
R 20	ERJ6GCJ110	R 166, 167	ERJ6GCJ582	R 416	ERJ6GCJ104	RJ 14, 15, 16,	RJ 717
R 21	ERJ6GCJ111	R 168, 169	ERJ6GCJ122	R 412	ERJ6GCJ331	RJ 17, 18, 19,	RRD18XJ122
R 22	ERJ6GCJ112	R 170, 171	ERJ6GCJ683	R 413	ERJ6GCJ102	RJ 20, 21, 22,	RJ 719
R 23	ERJ6GCJ113	R 182	ERJ6GCJ682	R 415, 421	ERJ6GCJ283	RJ 23	ERJ6GCJ000
R 24	ERJ6GCJ114	R 191, 192, 193, 194	ERJ6GCJ272	R 417, 419	ERJ6GCJ223	RRD18XK000	
R 25	ERJ6GCJ115	R 197, 198	ERJ6GCJ221	R 418	ERJ6GCJ333	RJ 301, 302,	RJ 721, 724
R 26	ERJ6GCJ116	R 201	ERJ6GCJ183	R 420	ERJ6GCJ101	303, 304,	RRD18XJ102
R 27	ERJ6GCJ117	R 206	ERDS2TJ104	R 422, 423, 425, 426	ERJ6GCJ393	305, 306,	RJ 723, 725
R 28	ERJ6GCJ118	R 301, 307, 309, 327, 505, 511	ERJ6GCJ474	R 424	ERJ6GCJ683	307, 503, 504	ERJ6GCJ000
R 29	ERJ6GCJ119	R 302, 320, 321, 516, 518	ERJ6GCJ332	R 427	ERJ6GCJ470	ERJ6GCJ000	
R 30	ERJ6GCJ120	R 303	ERDS2TJ332	R 428	ERJ6GCJ681	RJ 401, 402	ERJ6GCJ000
R 31	ERJ6GCJ121			R 501, 513	ERJ6GCJ274	RJ 501, 502, 601	RRD18XK000
R 32	ERJ6GCJ122			R 502, 509	ERJ6GCJ224	RJ 701, 702,	RJ 703, 704,
R 33	ERJ6GCJ123			R 503, 508, 517	ERJ6GCJ334	705, 706,	707, 708,
R 34	ERJ6GCJ124			R 504, 510	ERJ6GCJ121	709, 712	RRD18XK000
R 35	ERJ6GCJ125			R 506, 512, 520, 519	ERJ6GCJ223	ERJ6GCJ000	
R 36	ERJ6GCJ126			R 507	ERDS2TJ101	RJ 707, 710, 711	RRD18XK000

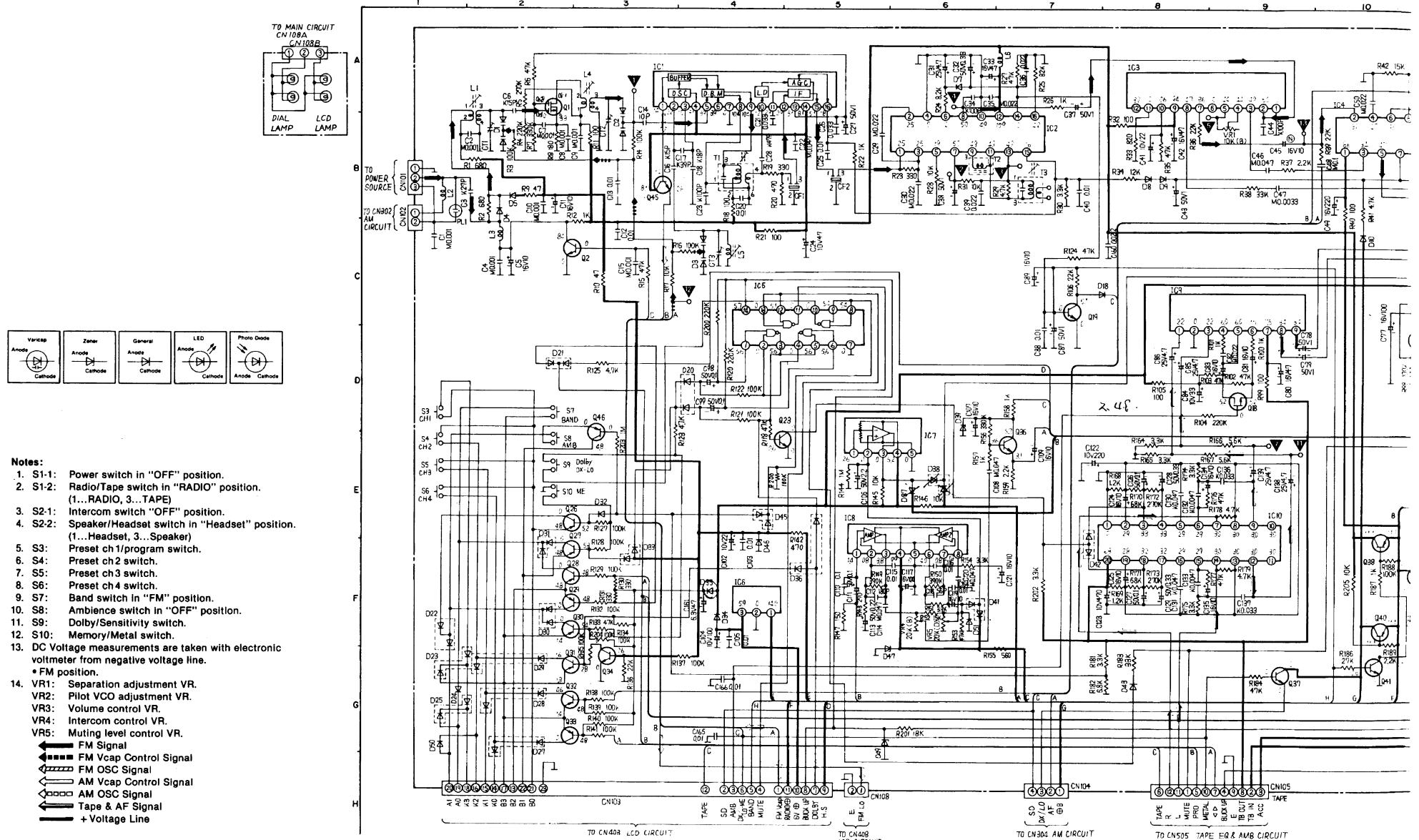
## ■ PARTS NO. FUNCTION NAME AND ZONE NO. SCHEMATIC DIAGRAM (MAIN CIRCUIT)

Ref. No.	Zone	Part No.	Function Name	Ref. No.	Zone	Part No.	Function Name
IC1	A · 4	LA1170	FM MIX & OSC	Q1	A · 2	3SK114Y	FM RF AMP
IC2	B · 6	RVILA1140	FM IF & DET	Q2	C · 2	2SD601R	SWITCHING
IC3	A · 8	RVISTK2110D	FM NOISE BRANKER	Q4	B · 12	2SD601R	SWITCHING
IC4	B · 10	RVILA3375	FM STEREO MPX	Q5	C · 12	2SD601R	SWITCHING
IC5	D · 4	RVITC4011BP	PRE SCALOR	Q6	A · 13	2SD601S	PRE AMP
IC6	F · 4	RVITA78L006P	REGULATOR	Q7	B · 13	2SD601S	PRE AMP
IC7	D · 5	RVIM51203L	MUTE CONTROLLER	Q8	A · 13	2SD601Q	BUFFER AMP
IC8	E · 5	RVIUPC1228H	DUAL OPERATIONAL AMP	Q9	B · 13	2SD601Q	BUFFER AMP
IC9	C · 9	RVIBA6133	DUAL POWER AMP	Q10	B · 14	2SD601R	SWITCHING
IC10	E · 8	RVILM1131C	AMBIENCE	Q11	C · 14	2SD601R	SWITCHING
IC11	E · 13	RVITAT7230P	DOLBY NR	Q12	D · 14	2SD601R	SWITCHING

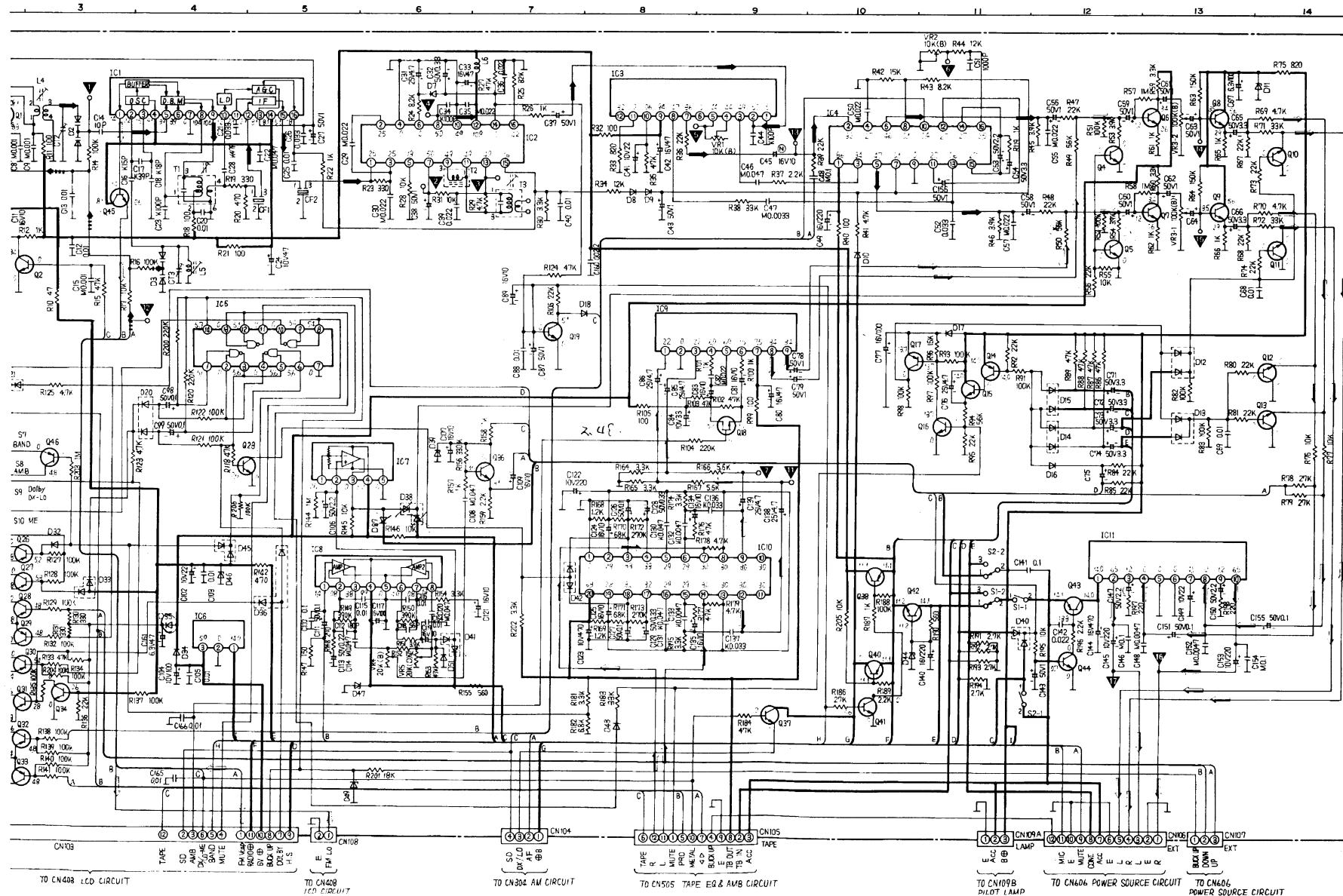
Ref. No.	Zone	Part No.	Function Name	Ref. No.	Zone	Part No.	Function Name
Q13	D · 14	2SD601R	SWITCHING	D12	D · 13	MA151WK	SWITCHING
Q14	D · 11	2SB709R (2SB709)	SWITCHING	D13	D · 13	MA151WK	SWITCHING
Q15	D · 11	2SD601R	SWITCHING	D14	D · 12	MA151WA	SWITCHING
Q16	D · 11	2SD601R	SWITCHING	D15	D · 12	MA151WA	SWITCHING
Q17	D · 11	2SB709R (2SB709)	SWITCHING	D16	E · 12	MA165	SWITCHING
Q18	D · 9	2SK160K5	SWITCHING	D17	C · 11	MA165	SWITCHING
Q19	C · 7	2SD601R	SWITCHING	D18	C · 8	MA165	SWITCHING
Q23	D · 5	2SD601R	SWITCHING	D20	D · 4	MA151WK	SWITCHING
Q26	E · 2	2SB709R (2SB709)	SWITCHING	D21	D · 2	MA151WK	SWITCHING
Q27	F · 2	2SB709R (2SB709)	SWITCHING	D22	F · 1	MA153	SWITCHING
Q28	F · 2	2SB709R (2SB709)	SWITCHING	D23	G · 1	MA151WK	SWITCHING
Q29	F · 2	2SB709R (2SB709)	SWITCHING	D24	G · 1	MA165	SWITCHING
Q30	F · 2	2SB709R (2SB709)	SWITCHING	D25	G · 1	MA151WK	SWITCHING
Q31	G · 2	2SB709R (2SB709)	SWITCHING	D27	G · 2	MA153	SWITCHING
Q32	G · 2	2SB709R (2SB709)	SWITCHING	D28	G · 2	MA153	SWITCHING
Q33	G · 2	2SB709R (2SB709)	SWITCHING	D29	G · 2	MA153	SWITCHING
Q34	G · 3	2SD601R	SWITCHING	D30	F · 2	MA151WK	SWITCHING
Q36	E · 7	2SD601R	SWITCHING	D31	F · 2	MA151WK	SWITCHING
Q37	G · 9	2SD601R	SWITCHING	D32	E · 3	MA161	SWITCHING
Q38	F · 10	2SA684-RNC	SWITCHING	D33	F · 3	MA151WA	SWITCHING
Q40	F · 10	2SA952K2	SWITCHING	D34	F · 4	MA165	SWITCHING
Q41	G · 10	2SD601R	SWITCHING	D35	F · 4	MA165	SWITCHING
Q42	F · 10	2SC1383Q	REGULATOR	D36	F · 5	MA151WA	SWITCHING
Q43	F · 12	2SA684-RNC	SWITCHING	D37	E · 6	MA165	SWITCHING
Q44	F · 12	2SD601R	SWITCHING	D38	E · 6	MA151WK	SWITCHING
Q45	B · 3	2SC2404C	OSC BUFFER	D39	E · 6	MA1056	REGULATOR
Q46	D · 3	2SC1684R	SWITCHING	D40	F · 11	MA151WK	SWITCHING
D1	B · 2	RVD1SV103	FM TUNING	D41	F · 6	MA153	SWITCHING
D2	B · 3	RVD1SV103	FM TUNING	D42	F · 7	MA151WA	SWITCHING
D3	C · 4	RVD1SV103	FM TUNING	D43	G · 7	MA161	SWITCHING
D4	B · 2	MA56	SWITCHING	D44	F · 10	MA1120	REGULATOR
D5	B · 2	MA56	SWITCHING	D45	E · 4	MA151WK	SWITCHING
D6	C · 5	MA1082M	REGULATOR	D46	F · 4	MA1056	SWITCHING
D7	A · 6	MA165	SWITCHING	D47	F · 5	MA1100	SWITCHING
D8	B · 8	RVDKB265G	SWITCHING	D49	H · 6	RVDRD6R2EB	REGULATOR
D9	B · 8	MA165	SWITCHING	D50	G · 1	MA165	SWITCHING
D10	C · 10	MA165	SWITCHING	D51	F · 6	MA165	SWITCHING
D11	A · 14	MA1056	REGULATOR	D74		MA165	

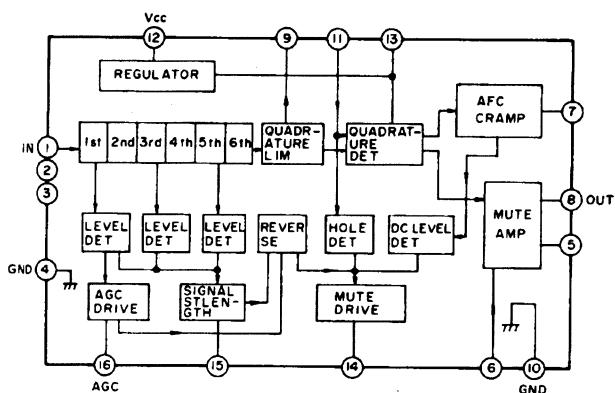
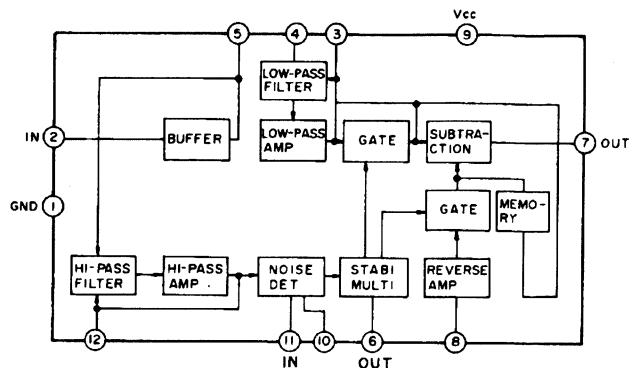
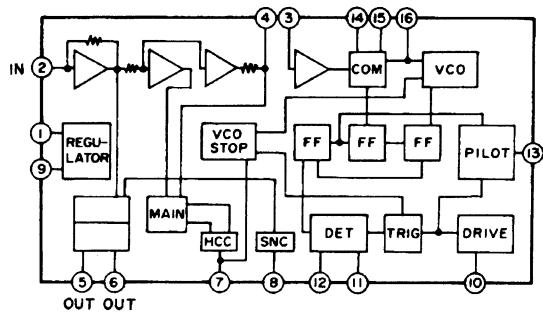
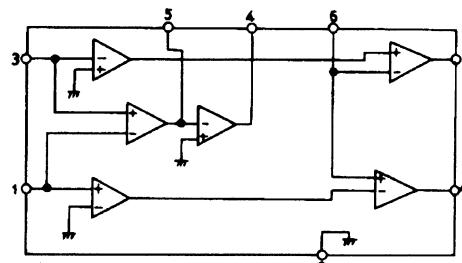
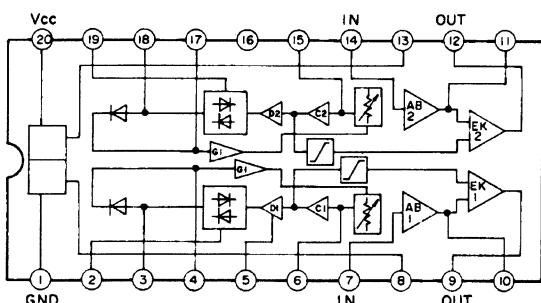
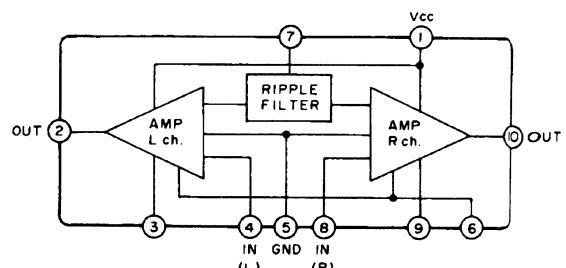
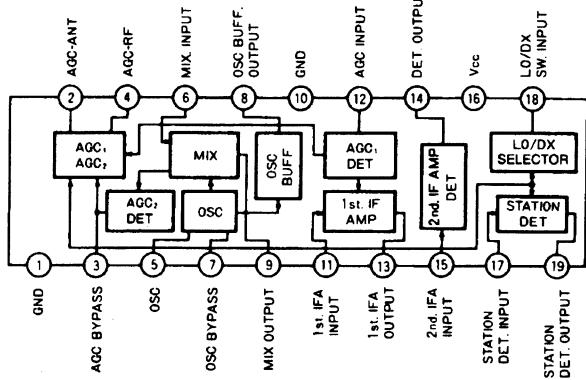
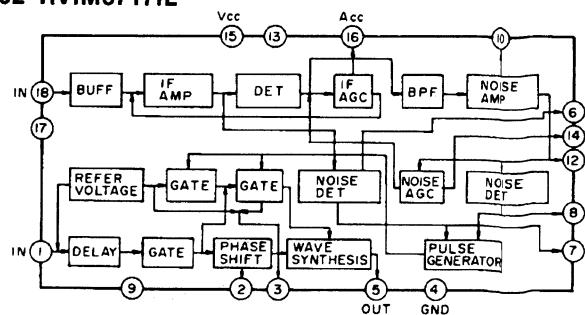
( ) ..... Supply Parts Number.

## **SCHEMATIC DIAGRAM (MAIN)**



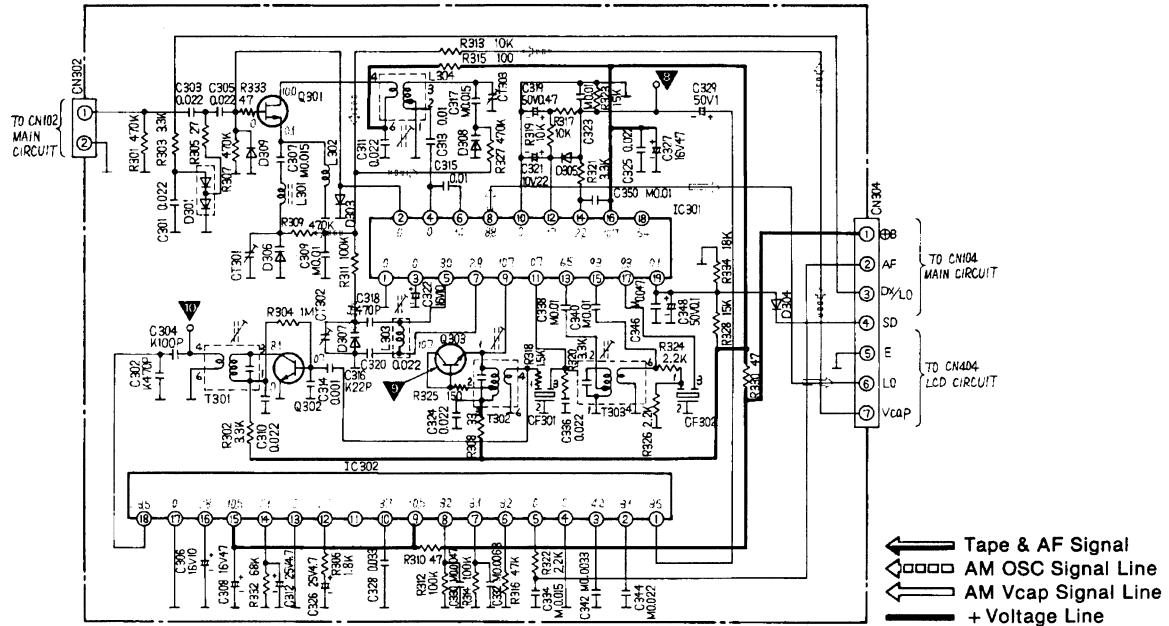
## SCHEMATIC DIAGRAM (MAIN)



**■ IC BLOCK DIAGRAM****IC2 RVILA1140****IC3 RVISTK2110D****IC4 RVILA3375****IC9 RVIBA6133****IC10 RVILM1131C****IC11 RVITA7230P****IC301 RVIUPC1215VE****IC302 RVIM5717IL**

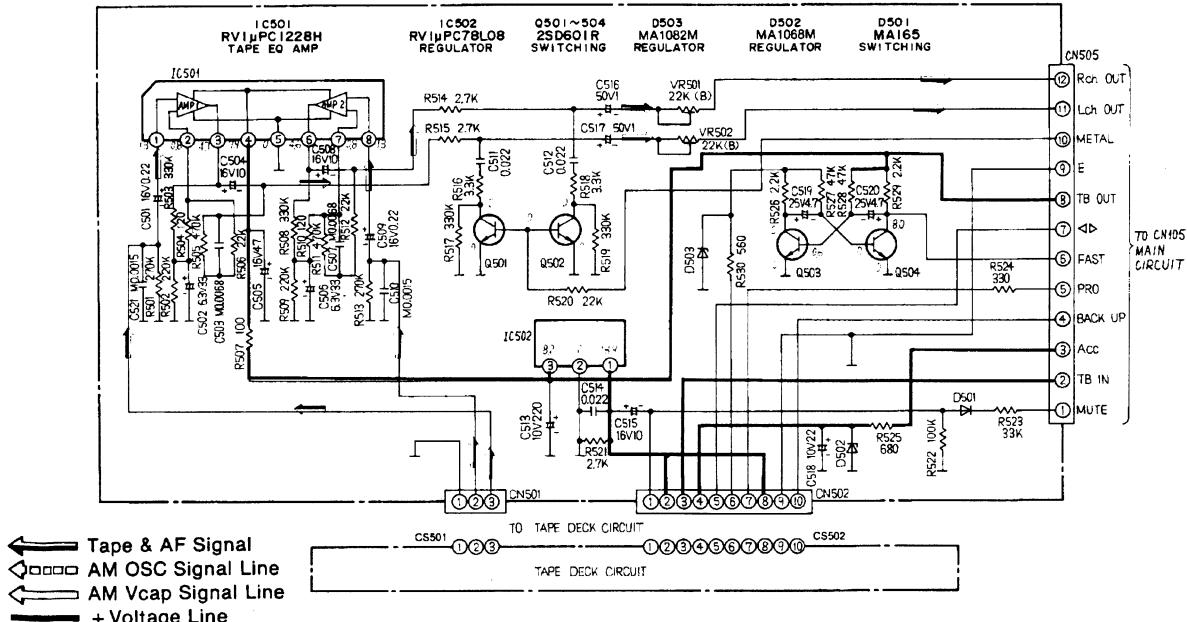
## SCHEMATIC DIAGRAM (AM)

D301 MA153 RVI SV149 306 D306 306 306 AM TUNING 25X 194BL 0301 0302 0303 0305 0301 0302 0303 0304 0305  
SWITCHING RF AMP 2SC2295B 1F AMP ACC RVDK9265G AGC AM IF AMP B DET RVI M57171L NOISE BLANKA  
MAIN CIRCUIT

**Note:**

DC voltage measurements are taken with electronic voltmeter from negative voltage line.  
• AM position.

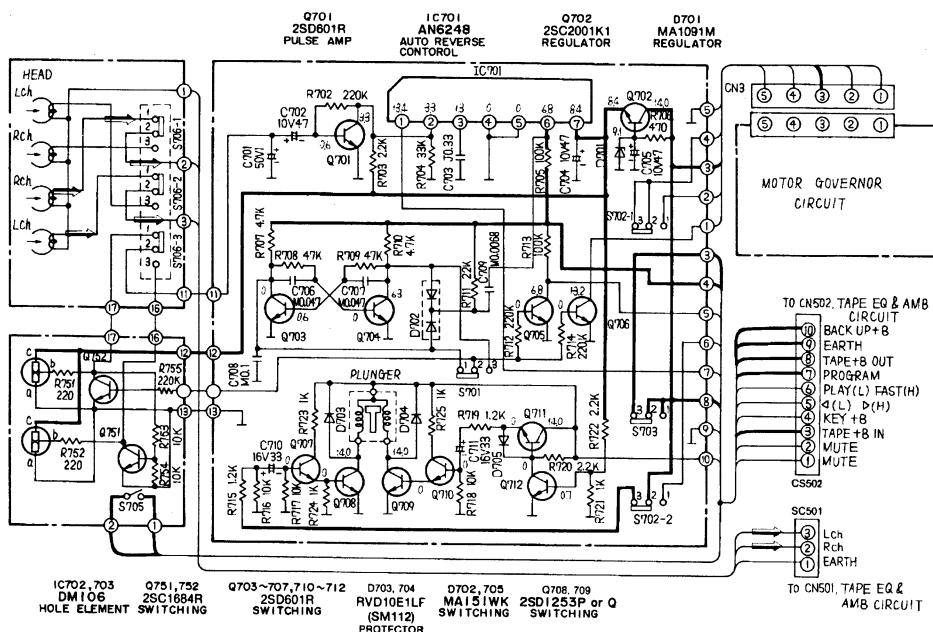
## SCHEMATIC DIAGRAM (TAPE EQ &amp; AMBIENCE)

**Note:**

DC voltage measurements are taken with electronic voltmeter from negative voltage line.  
• AM position.

VR501: Dolby level (R) adjustment VR.  
VR502: Dolby level (L) adjustment VR.

## **SCHEMATIC DIAGRAM (TAPE DECK)**



### **Notes:**

1. S701: Forward/Reverse switch in "Forward" position.  
(1...Forward, 3...Reverse)

2. S702-1: Motor speed switch in "FAST" position.  
(1...FAST, 3...PLAY)

3. S702-2: Plunger switch in "ON" position.  
(1...ON, 3...OFF)

4. S703: Tape switch in "ON" position.  
(1...OFF, 3...ON)

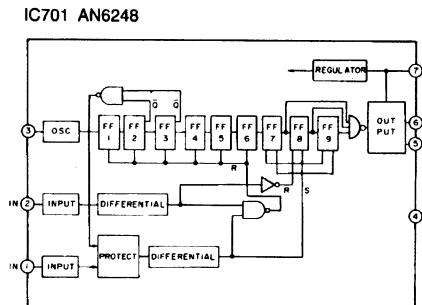
4. S705: Mute switch.

5. S706-1, S706-2: Head switch.

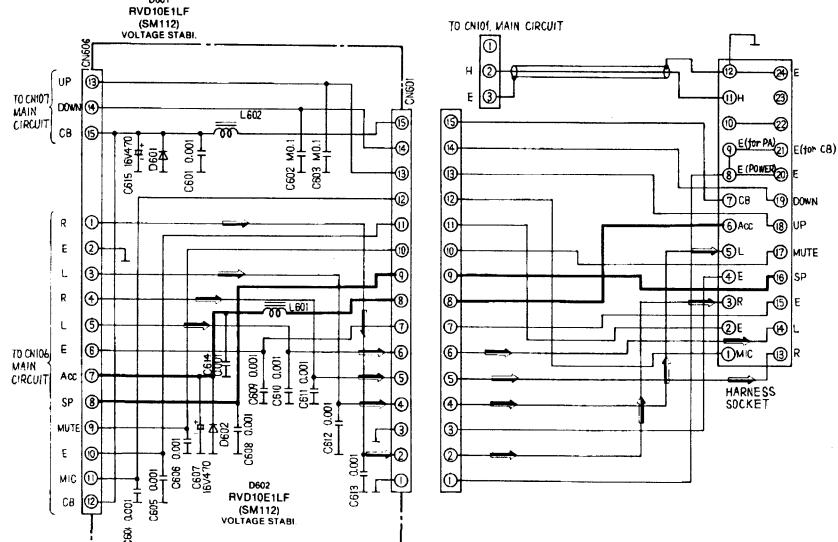
6. S706-3: Hole Element switch.

7. DC voltage measurements are taken with electronic voltmeter from negative voltage line.  
• Tape position.

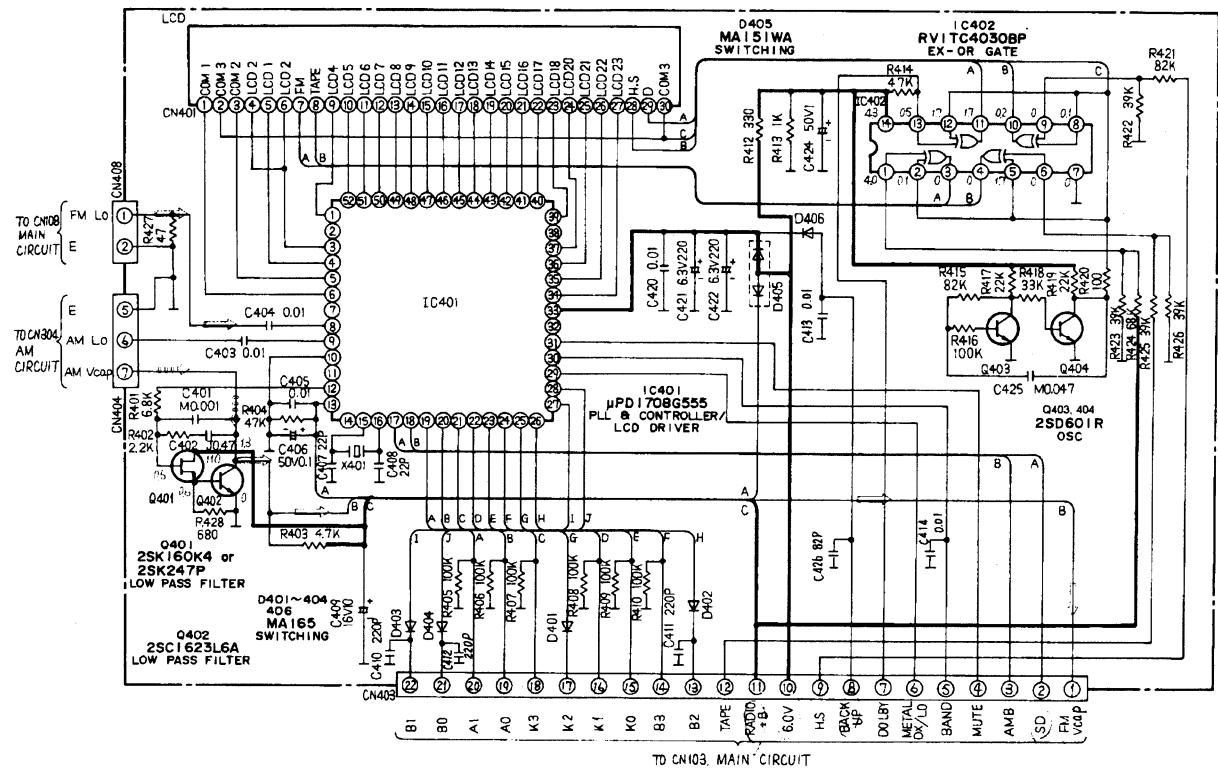
← Tape & AF Signal  
— + Voltage Line



## **SCHEMATIC DIAGRAM (POWER SOURCE)**



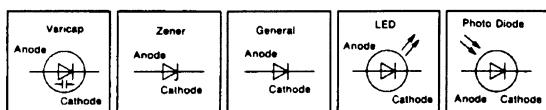
# SCHEMATIC DIAGRAM (LCD)

**Note:**

DC voltage measurements are taken with electronics voltmeter from negative voltage line.

- FM/Local/Headset position.

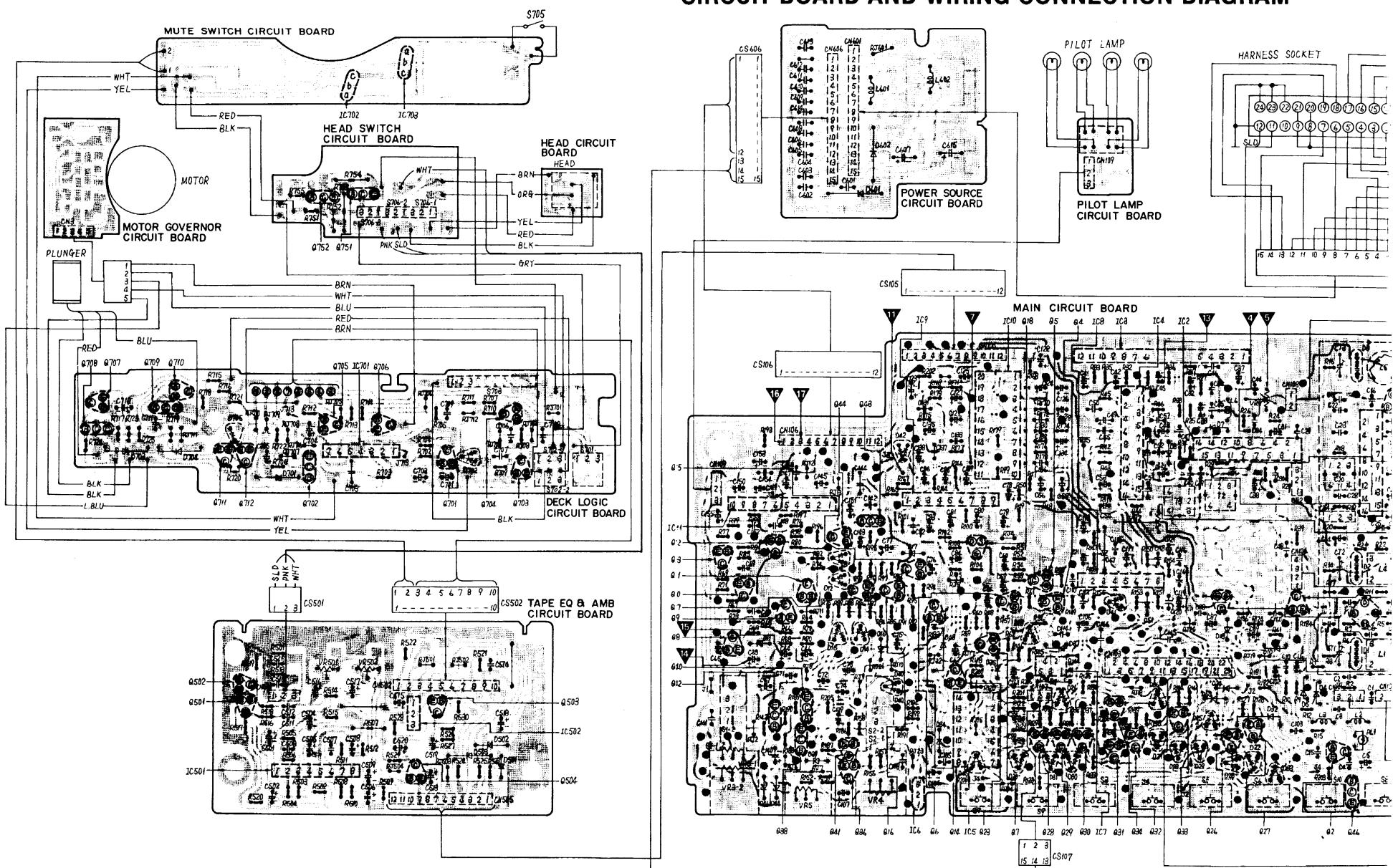
↗ FM OSC Signal  
 ↗ AM Vcap Control Signal  
 ↳ AM OSC Signal  
 — + Voltage Line



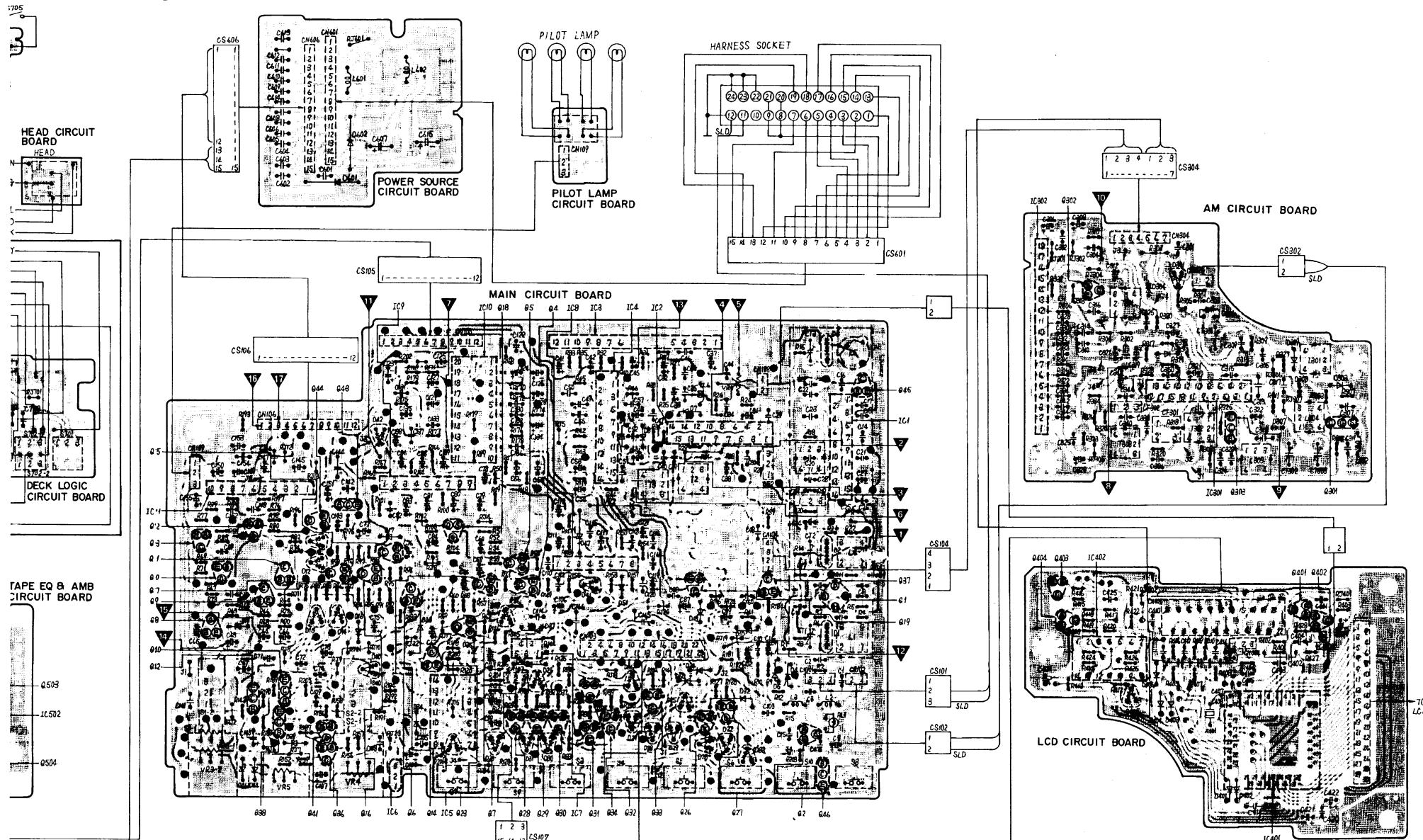
# TERMINATIONS

IC1, 4	IC2	IC3	IC51, 402	IC6	IC7
IC8, 501	IC9	IC10	IC11	IC301	IC302
IC401	IC502	IC701	IC702, 703	Q1	
C Anode Cathode Anode D1~3	Q18, 401 Anode Cathode Anode D4, 5	Q38, 42, 43 Anode Cathode Anode D6, 11, 39, 46, 502, 503, 701	Q40, 46, 303, 702, 708, 709, 751, 752 Anode Cathode Anode D8, 305	Q301 Anode Cathode Anode D7, 9, 10, 16~18, 24, 32, 34, 35, 37, 43, 49, 50, 51, 74, 303, 304, 309, 401~404, 406, 501	
D12, 13, 20, 21, 23, 25, 30, 31, 38, 40, 45, 702, 705 Anode Cathode Anode Anode Cathode	D14, 15, 33, 36, 42, 405 Anode Cathode Anode Anode Cathode	D22, 27, 28, 29, 41, 301 Anode Cathode Anode Cathode Anode	D44, 47 Anode Cathode Anode Cathode Anode	D306~308 Anode Cathode Anode Cathode Anode	D601, 602 Anode Cathode Anode Cathode Anode

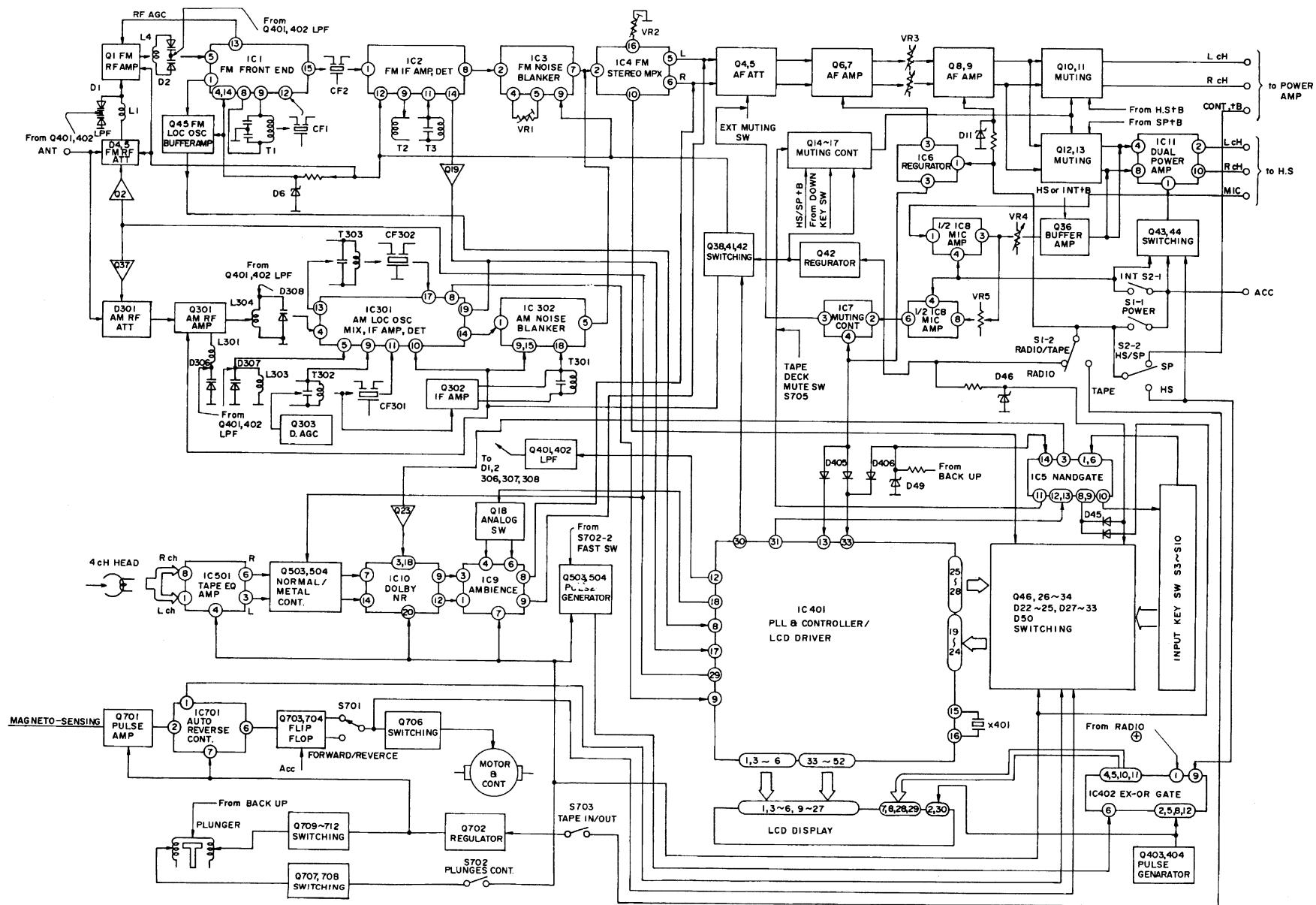
## CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



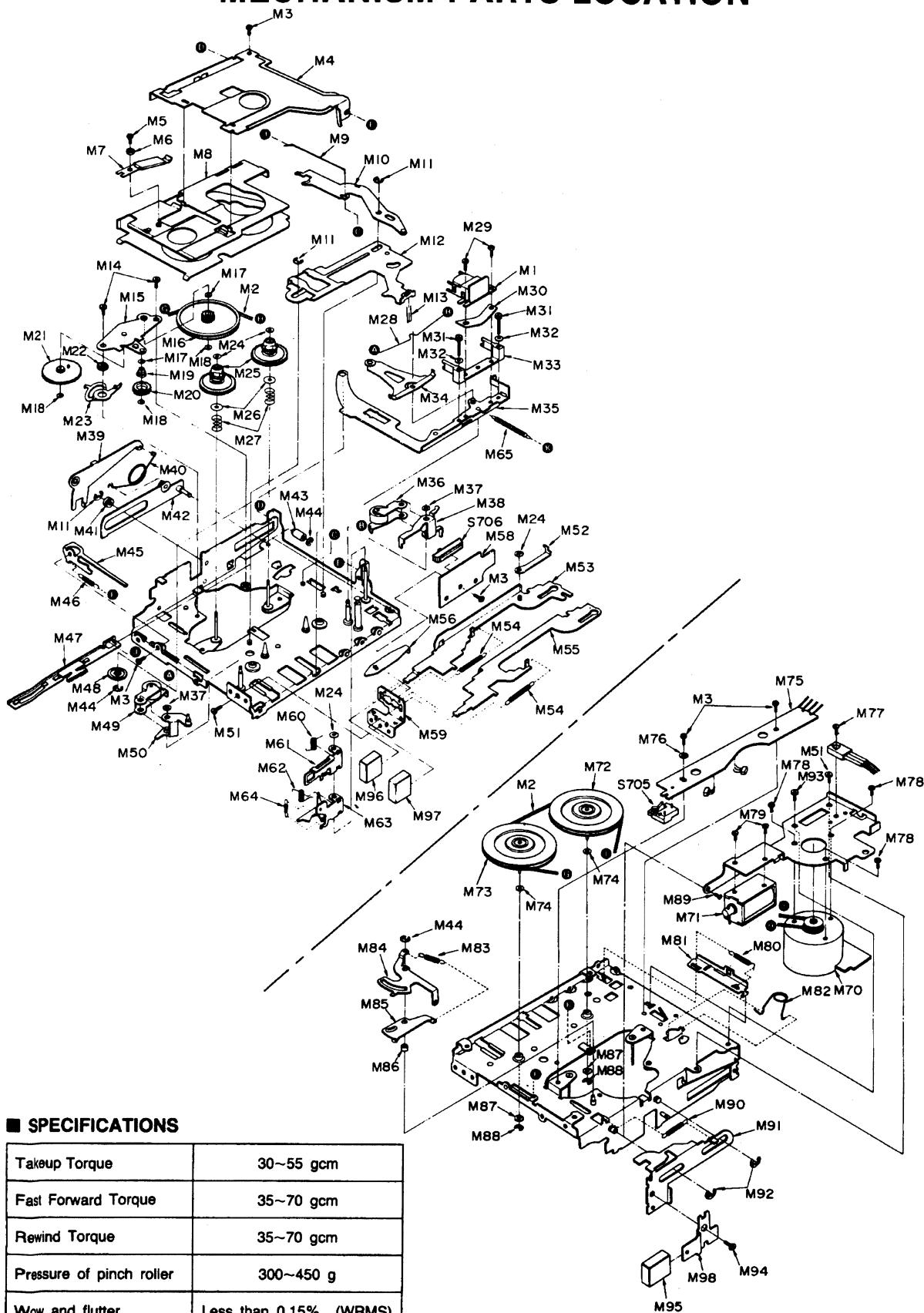
## CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



## BLOCK DIAGRAM



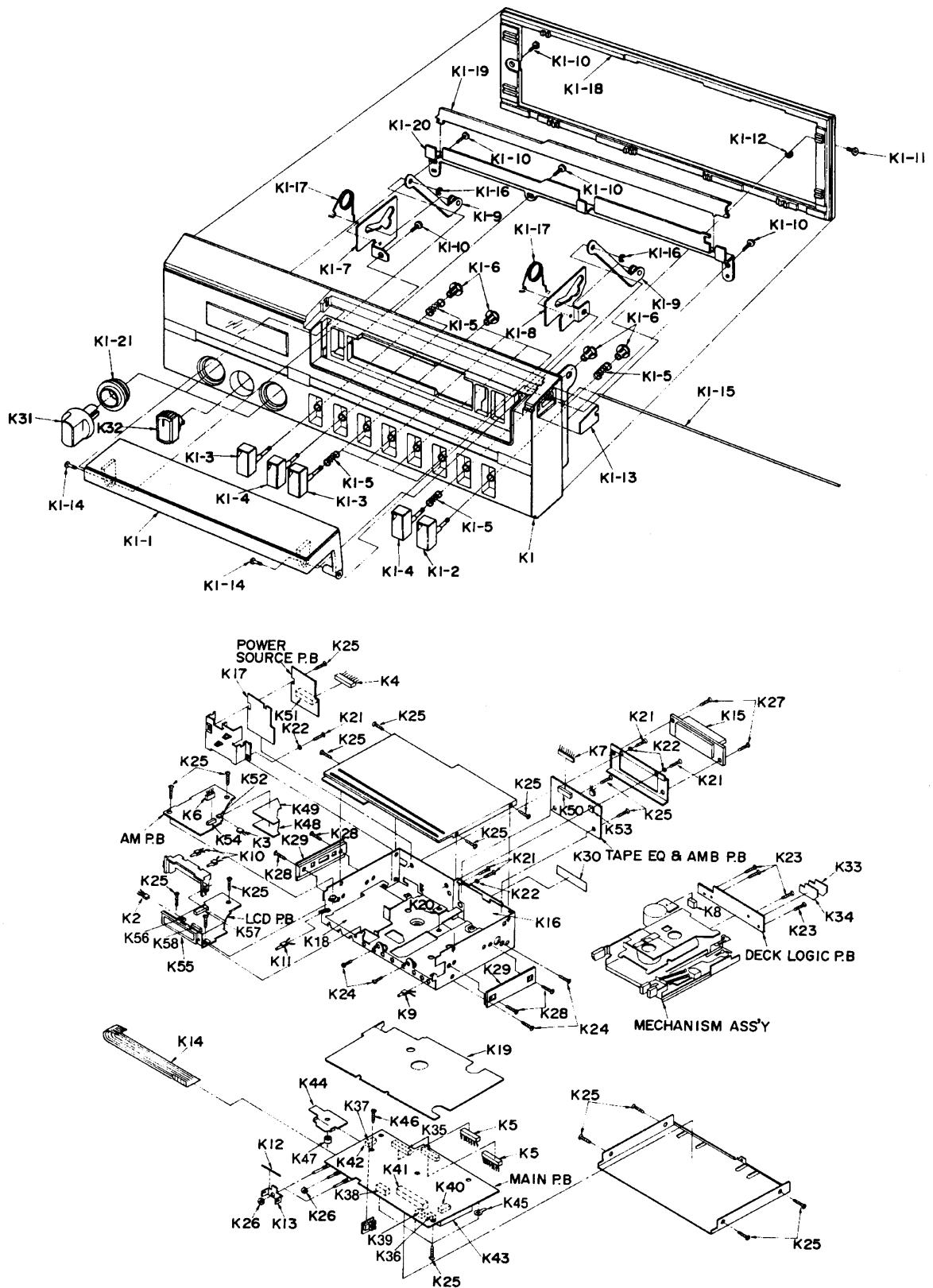
## MECHANISM PARTS LOCATION



## ■ SPECIFICATIONS

Takeup Torque	30~55 gcm
Fast Forward Torque	35~70 gcm
Rewind Torque	35~70 gcm
Pressure of pinch roller	300~450 g
Wow and flutter	Less than 0.15% (WRMS)

## CABINET PARTS LOCATION



# RM-1300A/RM-1400A

## REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
<b>MECHANICAL PARTS</b>								
M 1	RFH6Z	Playback Head Ass'y	M 64	RFS301Z	Spring, Lock Release Plate	K 1-17	RUS515Z	Spring, Cassette Cover
M 2	RFB30Z	Main Belt	M 65	RFS346Z	Spring, Head Panel Ass'y	K 1-18	RHG900Z	Rubber, Front Panel
M 3	RFE109Z	Screw, Case Lifter etc. M'tg	M 70	MMX4H2WDA	Motor Ass'y	K 1-19	RGE74Z	Panel, Indicator
M 4	RFD153Z	Case Lifter	M 71	RSE99Z	Key Off Plunger	K 1-20	RUH5Y	Angle, Indicator
M 5	RFE90Z	Screw, Pack Pressure Spring	M 72	FFF19Z	Flywheel Ass'y	K 1-21	RHG3001Z	Rubber, Knob
		M'tg	M 73	FFF18Z	Flywheel Ass'y	K 2	RWN1M1300AJH	Socket Ass'y, CN 108, 408
M 6	RFX77Z	Spacer, Pack Pressure Spring	M 74	RFN85Z	Nylon Washer, Flywheel	K 3	RWN2M1300AJM	Socket Ass'y, CN 102, 302
M 7	RFS306Z	Spring, Pack Pressure	M 75	RFT6Z	Circuit Board	K 4	RWN3M1300AJH	Socket Ass'y, CN 106, 107, 606
M 8	RFD152Z	Cassette Case B	M 76	RFN72Z	Washer, Circuit Board	K 5	RWN4M1300AJH	Socket Ass'y, CN 105, 505
M 9	RFS298Z	Tension Spring	M 77	RFE112Z	Screw, Transistor M'tg	K 6	RWN5M1300AJH	Socket Ass'y, CN 104, 404
M 10	RFY239Z	Change Lever	M 78	RFE113Z	Screw, Motor Ass'y M'tg	K 7	RWN6M1300AJH	Socket Ass'y, CN 502
M 11	XUC2FT	E Ring, Main Plate, etc. M'tg	M 79	RFE91Z	Screw, Key Off Plunger M'tg	K 8	RWN7M1300AJH	Socket Ass'y (Tape, Motor)
M 12	RFU19Z	Main Plate	M 80	RFS305Z	Spring, Switch Lever Arm	K 9	RWN8M1300AJH	Socket/Lamp Ass'y (PL 4)
M 13	RFS296Z	Spring, Switch Operation	M 81	RFY252Z	Switch Lever Arm	K 10	RWN9M1300AJH	Socket/Lamp Ass'y (PL 1, 5)
		Plate	M 82	RFS297Z	Reverse Spring, Change	K 11	RWN10M1300AJ	Socket/Lamp Ass'y (PL 2)
M 14	RFE110Z	Screw, Gear Plate A M'tg	M 83	RFS308Z	Spring, Key Off Plate B	K 12	RUSS42Z	Spring, Volume
M 15	RFD150Z	Gear Plate A	M 84	RFY255Z	Key Off Plate B	K 13	RMD205Z	Bracket
M 16	RFG40Z	Main Gear	M 85	RFY254Z	Key Off Plate A	K 14	RJE161Z	Lead Wire
M 17	RFN87Z	Nylon Washer, FF/REW Gear	M 86	RFX78Z	Spacer, Key Off	K 15	RJS0R1Z	Socket
M 18	SMQ4930	Washer	M 87	RFN88Z	Nylon Washer, Flywheel	K 16	RMX248Z	Insulator
M 19	RFS299Z	Spring, FF/REW Gear			Ass'y	K 17	RMX249Z	Insulator
M 20	RFG42Z	FF/REW Gear	M 88	RFE114Z	E Ring, Flywheel Ass'y M'tg	K 18	RMX250Y	Insulator
M 21	RFG41Z	Reverse Gear	M 89	RFE108Z	Screw, Motor Bracket M'tg	K 19	RMX252Y	Insulator
M 22	RFX74Z	Spacer, Gear Plate	M 90	RFS304Z	Spring, Eject Lever	K 20	RMX256Z	Insulator
M 23	RFY241Z	Reed Plate	M 91	RFY251Z	Lever, Eject	K 21	XSN3+4S	Screw, Bracket, Socket M'tg
M 24	SMQ4928	Washer, Reel Table	M 92	XUC3FT	E Ring, Eject Lever M'tg	K 22	XWA3B	Washer
M 25	RFJ26Z	Reel Table	M 93	XTN26+4H	Screw, Motor Bracket M'tg	K 23	XTN26+4B	Screw, Circuit Board M'tg
M 26	RFN86Z	Nylon Washer, Reel Table	M 94	XYN26+J5	Screw, Lever M'tg	K 24	XTV26+5F	Screw, Deck M'tg
M 27	RFS309Z	Spring, Reel Table	M 95	RBC483Y	Button, Eject	K 25	XTV3+6BFN	Screw, Bracket, Circuit Board M'tg
M 28	RFS295Z	Spring, Pinch Roller Arm	M 96	RBC482Y	Button, REW	K 26	XNS7D	Nut Volume Mute Int Cum
M 29	XSN2+4	Ass'y	M 97	RBC482Z	Button, FF	K 27	RHE5047Z	Screw, Socket M'tg
M 30	RFS293Z	Screw, Playback Head	M 98	RUB284Z	Lever, Eject	K 28	RHE5048Z	Screw, Slider M'tg
M 31	XYN2+11F	Screw, Tape Guide M'tg				K 29	RKC80Z	Slider
M 32	RFN89Z	Washer, Tape Guide M'tg				K 30	RGT1160Z	Name Plate (For RM-1300A)
M 33	RFE107Z	Tape Guide				K 31	RGT1167Z	Name Plate (For RM-1400A)
M 34	RFY237Z	Pinch Roller Operation Plate				K 32	RBN651Y	Knob, VOLUME, INT COM (For RM-1300A)
M 35	RFU18Z	Head Plate Ass'y	K 1	RYPM1300AJHD	Front Panel Ass'y (For RM-1300A)	K 33	RBN702Z	Knob, VOLUME, INT COM (For RM-1400A)
M 36	RFR12Z	Pinch Roller Arm (Right)				K 34	RMX260Z	Insulator
M 37	RFN51Z	Washer	K 1	RYPM1400AJHD	Front Panel Ass'y (For RM-1400A)	K 35	RJP12G10Z	Plug, CN 105, 106
M 38	RFY242Z	Switch Lever Arm				K 36	RJP2G4Y	Plug, CN 102, 108
M 39	RFY253Z	Lift Up Lever	K 1-3	RBC638Z1	Button, Preset, Band (For RM-1300A)	K 37	RJP3G1Z	Plug, CN 109
M 40	RFS307Z	Reverse Spring, Eject	K 1-2	RBC481Z	Button, Preset, Band (For RM-1400A)	K 38	RJP3G10Z	Plug, CN 107
M 41	RFX75Z	Spacer, Push Plate	K 1-2	RBC638Z	Button, M/ME, Dolby, SENS (For RM-1300A)	K 39	RJP3G4Y	Plug, CN 101
M 42	RFY250Z	Push Plate	K 1-3	RBC481Z1	Button, M/ME, Dolby, SENS (For RM-1400A)	K 40	RJP4G10Z	Plug, CN 104
M 43	RFX76Z	Spacer, Push Plate				K 41	RJS236Q0Z	Plug, CN 103
M 44	XUC15FT	E Ring, Push Plate Spacer	K 1-3	RBC638Z1	Button, M/ME, Dolby, SENS (For RM-1400A)	K 42	RJS3M1Z	Plug, CN 109
M 45	RFY238Z	Timing Plate	K 1-4	RBC481Z2	Spring, Preset Button	K 43	RMC805Z	Shield
M 46	RFS284Z	Spring, Timing Plate				K 44	RMY188Z	Heat Sink
M 47	RFY240Z	Rack Plate	K 1-4	RBC638Z2	Stopper, Button	K 45	RJT1026Z	Terminal
M 48	RFQ22Z	Head Base Plate Roller	K 1-4	RBC638Z2	Bracket, Cassette Cover, Left	K 46	XTB3+8BFZ	Screw, Heat Sink M'tg
M 49	RFR13Z	Pinch Roller Arm (Left)	K 1-5	XSN3+6S	Bracket, Cassette Cover, Right	K 47	RHM168Z	Spacer, Heat Sink
M 50	RFY243Z	Pull Plate	K 1-5	RDS3094Z	Lever, Cassette Cover	K 48	RMC1026Z	Shield
M 51	RFE111Z	Screw, Lever Bracket, etc.	K 1-6	RHR475Z	Tapping Screw	K 49	RMX301Z	Insulator
		M'tg	K 1-7	RUL697Z	Screw, Cassette Cover	K 50	RJP10G9Y	Plug, CN 502
M 52	RFY249Z	Lock Sensor Push Plate	K 1-8	RUL698Z	Bracket, Cassette Cover, Right	K 51	RJP15G10Z	Plug, CN 601
M 53	RFY245Z	Rewind Lever				K 52	RJP2G8Y	Plug, CN 302
M 54	RFS300Z	Spring, Rewind, FF Lever	K 1-9	RUL9004Z	Screw, Cassette Cover	K 53	RJP3G8Y	Plug, CN 501
M 55	RFY244Z	FF Lever	K 1-10	XTN26+8B	Bracket			
M 56	RFY246Z	Non-Lock Plate	K 1-11	XSN3+6S	Washer			
M 58	RFT7Z	Circuit Board	K 1-12	XWA3B	Ornament			
M 59	RFD151Z	Bracket, Lever	K 1-13	RGX1367Z	Shaft, Cassette Cover	K 54	RJP7G10Z	Plug, CN 304
M 60	RFS303Z	Spring, Lock Plate	K 1-14	RHM164Z	Shaft, Cassette Cover	K 55	RADAM834	Display Tube
M 61	RFY248Z	FF/REW Rock Plate	K 1-15	RDF828Z	Shaft, Cassette Cover	K 56	RJP2G9Y	Plug (2P), CN 408
M 62	RFS302Z	Spring, Lock Release Plate	K 1-16	XUC12F	Stop Ring	K 57	RJS22Q7Z	Socket, CN 403
M 63	RFY247Z	Lock Release Plate				K 58	RJS30Q5Z	Socket, CN 401